Preface

The manual provides us with general principles and methods concerning the introduction of PTZ Domes' operation and installation. Please have a careful reading before making installation.

This integrated PTZ Dome series, with built-in DSP of high performance, can combine integreated camera and decoders. It adopts pan-digital controlling, ensuring a flexible program. Reaching all-round and complete clearance monitoring in the true sense, due to high-accuracy rotating system, freely and fast position and successive track scanning. Exview performance makes it possible to adapt all the environment (bright / dark) and different goals (far / near). In other words, it belongs to one kind of integreated design with a system of high reliability.

This series can combine many protocols, such as PELCO-P/D and so on. The specific operation may vary while using different systems. And we should take the present system as basis. Concerning the specific operation details, please contact system manufacturers and the corresponding distributors directly!

Safty Announcements

1. Don't take it apart freely

To prevent electric shocks, don't separate screw or housing。

All the componence of the machine must be prepared by the professionals。

As for the maintenance, it should be carried out by qualified experts。

2. Please use the camera carefully

Don't use it as you like, to avoid striking and shocking, be sure to use or store it appropriately。

3. Don't expose the camera to rain or moisture (except outdoor used model)

It is designed inside of the house, so be sure to avoid rain and moisture。

Turn off the power supply and maintain it by qualified person。

The moisture may affect the cameras and lead to electric risk。

4. Don't install indoor PTZ Dome outside the house

It may influence the life expectation of the dome

5. Don't use intensified or grinded detergent to clean it

Please use dry and soft clothto clean it when it isdirty. If seriously dirty, please use moderate detergent. Pay more attention to its appearance while cleaning and erase the remains.

6. Don't aim at the sun

Be sure not to aim it at the sun or any other brightobjects, whether in use or not. Or, it may cause the pisture unclear.

7. Avoid exposing it to the light source or hard light too long

If the facula appears on the screen due to the light source, the image may fade to some extent

8. Avoid installing it reversedly

It's designed for ceiling or wall mount. So if installed upside down, such as installing on the floor, it may cause it out of order.

9. Please use it according to the required temperature, humidity and power supply

Don't use it under the circumstance of high temperature or humidity. Leave it away from heat-generating equipments, such as warm vapor, stoveand so on.

10. Placing it away from air-conditioner's entrance point

The lens may generate fog due to the water-condensing under the following circumstance:

Quick changes from high to low temperature caused by turning on/off the air-conditioner from time to time.

Quick changes from high to low temperature caused by opening/closing the door occasionally

Used under the conditions that the glasses can generates fog.

Used in the house full of smog or dust.

If the lens covered with fog generatede by water-condensing, put the cover down and clean the appearance with a piece of soft cloth.

11. Consumer Goods

Some components, such as lens drive, cooling fan (electrical engineering), built-in sliding loop may be weared out due to long-term using. Concerning its update and maintenance, please consult to maintenance center.

12. Don't make it point to the same object too long

If so, the object's shadow will appear on the screen

13. Don't install it on some places easy to shake

Install a shake-eliminating device when having cameras close to bridge, plane or vehicle.

Main Features

1、 Built-in decoder

- Digital design, data will not be lost while power fail.
- With recovery function while turning on-the users can run it as you like.
- Auto operating function whenreceived no orders.
- Preset positions 128(LG/CNB camera series support presets 56), speed adjusted.
- Preset speed : 200º-280º/s adjustable， the horizontal max speed 280º/s、vertical280º/s
- 3 patterns, time range can reach 3 minutes at least, and can save many kinds of P/T or lens' operation and presets.
- 3 preset patrolling scanning routes, each contains 32 presets, and the presets' time and speed can be separately programmed.
- Support many scanning methods, such as auto scan, fram scan etc.
- The domes' ID belongs to soft ID setting, can be edited on the inside menu.
- Integreated multi-protocol control:
  PELCO“P”
  PELCO“D”
- Quickly separated driver
- 4ch alarm input;2ch assiting output.
- Alarm input-1.2ch active alarm, 3,4ch alarm (On/Off)
- Assiting output-used to control relay choosen freely
- Privacy zones up to 6, can be moved along with the dome.(area adjustable)
- Propotional zoom lens, P/T speed and depth of zoom lents will decrease in propotion.

2、 Integreated assembling design, built-in P/T

- 6inch transparent cover, black and non-transparent rotation dome, ensuring safty monitor.
- Beautiful and exquisite appearance,compact structure, fast assemble and disassemble.
- Ceiling mount, inside / outside pendent mount.
- Horizontally controlling speed 0.1º-280º/s，max speed adjustable,200º-280º/s
- Manual control speed0.1º-280º/s vertically，max speed adjustable, 200º-280º/s
- With vertical auto flip function, reach 180° vertically successive monitoring.
- 360°continuously horizontal rotation, all-direction monitor
- Comply with IP66/CE standard
- Built-in surge protection device

3、 Built-in zoom lens, integreated digital color camera of high sensitivity and resolution

- Many high-resolution cameras of various models provided bydifferent manufacturers can be available..
- Auto focus, manual priority.
- Auto iris
- Sharpeness adjustable (manual)
- Auto shift from C-W/B.

4、 Built-in OSD Menu

- Built-in multi-functional video OSD，functional parameters of cameras and P/T function can be settable, with easy operation.
- Set 16 main subjects display
- Built-in direction display
- Built-in dome's temperature display

Installing Preparation

1、 Basic Requirement

All the electric work must comply with the latest electric rulesand regulations, fire-prevention and allied rules and regulations ；

Check whether all the attachments arelisted according to the packing list,to insure the dome's application and installationare complied with the correspondent reques. Please contactsupplier while problems raised. And be sure to use this product according tooperation/ working environment.

2、 Check Installation Space and Construction Intensity of the spot

The installation space should be large enough to contain the products. The spots (ceiling, wall, braket) shouldbear the weight of the whole products

4 times softy modulus are requested

3、 Prepairing work regarding the cable

To choose suitable cable according to the transmitting distance：

（1）75Ω；

（2）copper conducting wire；

（3）95％knitting copper shield

Domestic Model	International Model	Max Distance （foot\m）
RG59/U	RG59/U	760ft(229m)
5C-2V	RG6/U	1,000ft(506m)
7C-2v	RG11/U	1,500ft(457m)

- RS485telecommunication cable（refer to appendix Ⅲ）

4、 DIP Switch Setting

To set DIP Switch according to the Baud Rate and Protocol(refer to appendix SW3）

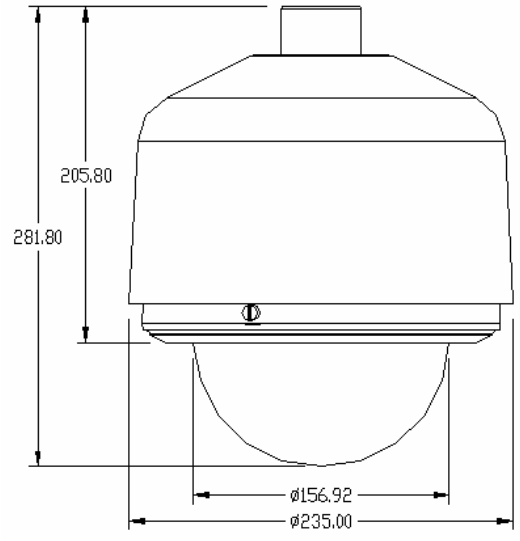
5、 Please keep all the packing materials of Dome

Please keep the packing materials aftertaking the dome out, then you can use the original packing materials to wrap up mthe products and diliver it to the agent or manufacturer if something is wrong with it. Well, if you don't use the original materials, the goods may be destroyed in transportation and caused extra charge.

Indoor/Outdoor Dome Structure

■ Indoor/Outdoor Dome Structure（drawing as follows）

Main structure of indoor/outdoor dome structure



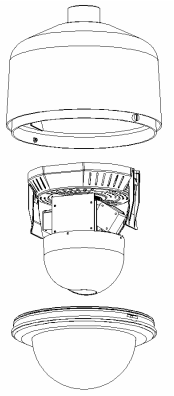
Contain three parts，please confirm the packaging to ensure a complete products

Wall-mount Dome：

Up-cover

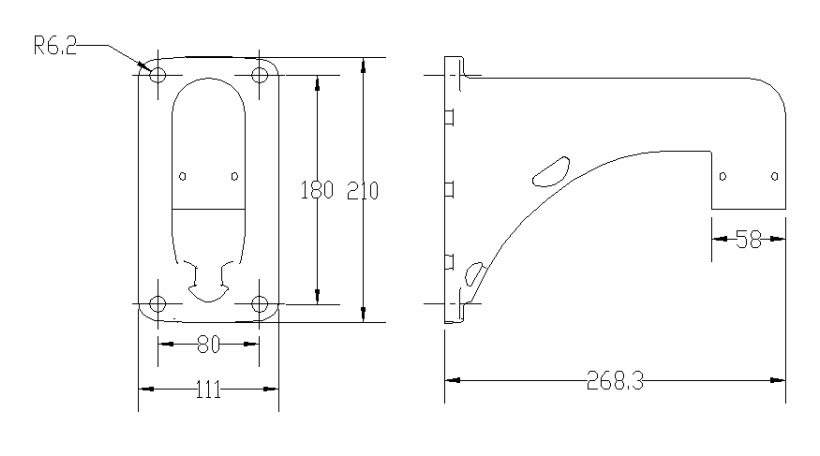
Integrated Chip

Down-cover



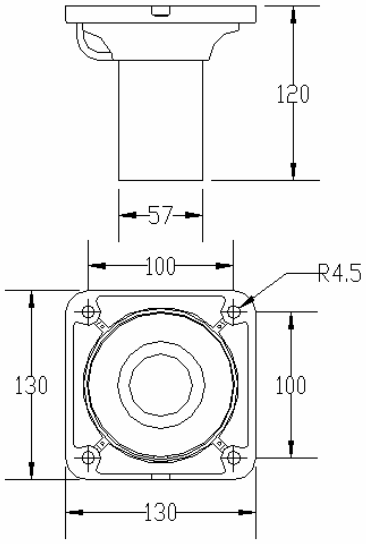
Bracket Installation Size

■ Wall-mount bracket installation Size



Wall-mount dome can be used indoor/outdoor environment with strong wall，Concerning the details, please refer to P7-9.

■ Ceiling-mount Bracket Installation Size



Ceiling-mount dome can be used indoor/outdoor environment with strong ceiling，Concerning the details, please refer to P7-9.

Indoor/ Outdoor PTZ Dome Installation

■ Installation Steps:

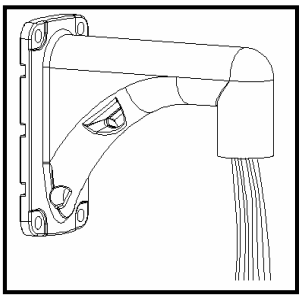


FIG45

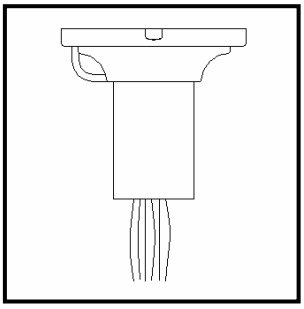


FIG46

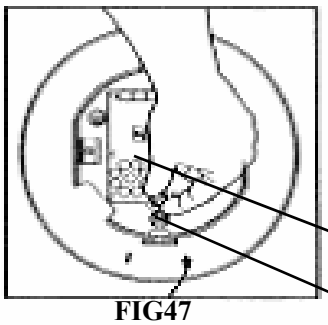


FIG47

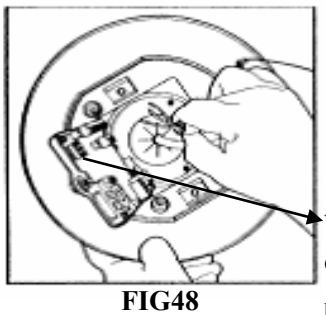


FIG48

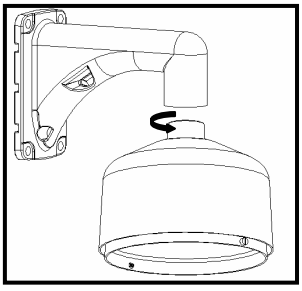


FIG49

First: Bracket Installation

a.Installation of pendent braket

1、It can be used indoor/outdoor strong door

Attention：a. The wall should be thick enough to fix inflating bolt.

b. The wall should support at least 4 times weight of the dome

c. Please be sure about airproof, waterproof and avoid moisture if fixed outside the house

2、According to the wall-mount bracket installation drawing，mark dimension，take the installing hole as moulding board，Take the fixing hole under the braket as moulding board,draw a fixing hole and drill it. Get video line, controlling line, power source line (alarm signal line requested by alarming function) across the braket and make a steady one(as shown on FIG 45)：

b.Installation of ceiling-mount bracket

1、It can be used indoor/outdoor strong ceiling structure.

Attention：a. The ceiling should be thick enough to fix inflating bolt.

b. The ceiling should support at least 4 times weight of the dome

c. Please be sure about airproof, waterproof and avoid moisture if fixed outside the house

2、According to the ceiling-mount bracket installation drawing，mark dimension，take the installing hole as moulding board，Take the fixing hole under the braket as moulding board,draw a fixing hole and drill it. Get video line,controlling line, power source line (alarm signal line requested by alarming function) across the braket and make a steady one(as shown on FIG 46)：

Second: Installation of the up-cover

1、Loosen the screw on the overturning box and open the turning board.(as shown on FIG 47)

2、Make the lines getting through the braket enter into the up-cover and screw the up-cover tightly to the braket. If it is used outside, please tangle the connection point of the screw with waterproof adhesive plaster and then tighten up , lock and fix the screw.(as shown on FIG 48、49)

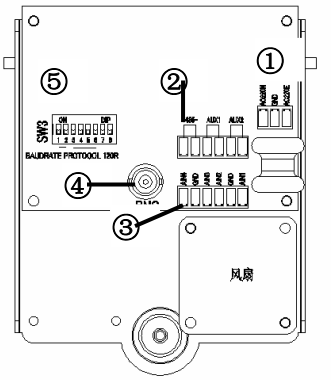
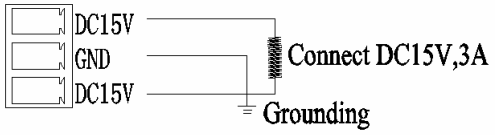


FIG50

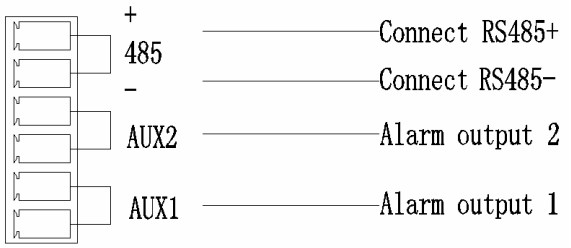
3、(As shown on FIG 50 and connection sketch map)，Make connection between cable line (video line, controlling line, power source line, alarm signal line requested by alarming function) and the corresponding connection terminal on the connecting board of the up-cover. And ensure an accurate connection

①：Three power supply connection sketch map：

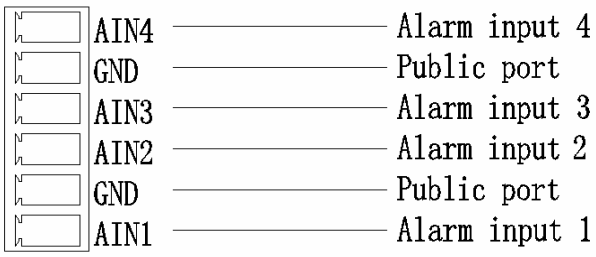


Caution：The power supply of the dome in this system is DC15V or AC24V input, please connect it according to the wiring FIG.

②：RS485 input/2ch output point connection sketch map：



③：4ch alarm input point connection sketch map：



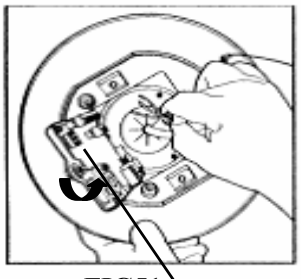
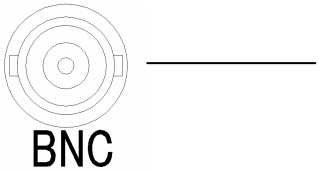


FIG51

SW3 DIP Switch

④：Video connection sketch map：



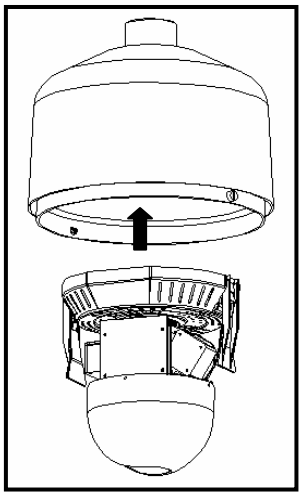


FIG52

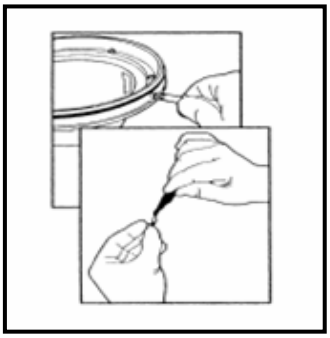


FIG53

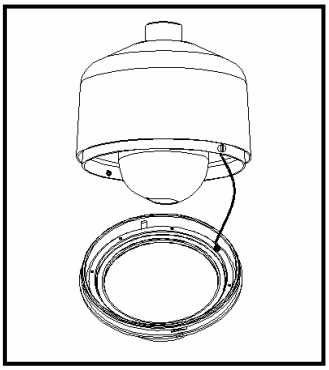


FIG54

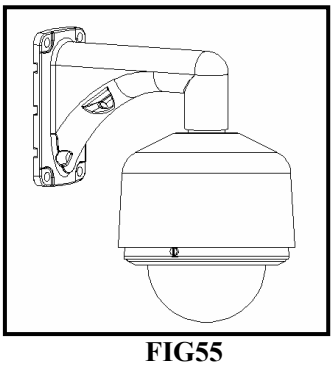


FIG55

4、Set SW3 buton on the connection board of rotation box an appropriate protocol and baud rate. (As to the specificmethod,,please refer to the appendis's SW3code setting in the end of the manual)，And then loosen the screw , lock the rotation box tightly (as shown on FIG 51)

Third : Install the integreated chip

1、 Be sure the red card and the green card of the chip are corresponding with the red lable and the green lable and then push upward. Insert the green card first and then the red one. You can be sure that it's been installed already when you hear two meticulous sound. For the sake of safty, swing the chip from one side to another to ensure a steady installation (as shown FIG 52)

2.、Normally, the red indicator is on when the power is supplied.

Fouth: Installation of the down-cover

1、 Paint the lubrication on the circle of "O" shape and fix it on the circle groove in the down-cover. Connect the end of safty rope in the down-cover to the fixed hole on the embeded up-cover.(as shown on FIG 53)

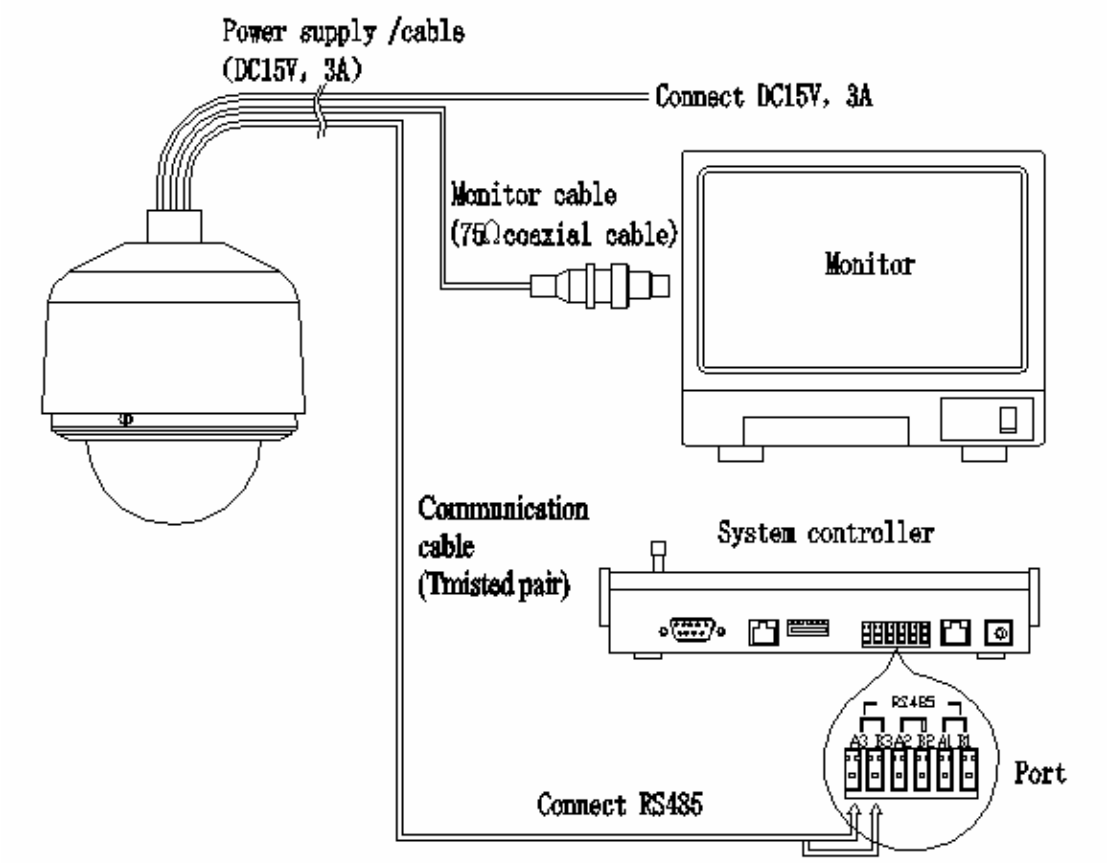
2、 Make the screw's fixed hole on the down-cover match the button seat on the edge of the up-cover. Press the down-cover tightly and tighten up the screw and lock the down-cover.(as shown on FIG 54.、55)

Connection Sketch Map

Please turn off all the equipments' power supplyand read the manual carefully before connecting!

Attention

- **The following work should be carried out by professionals or system installing expertsunder theciecumstance of local situation;**
- **The power supply should be DC15V or AC24V input! Please use the special power supply that equipped on this product!**

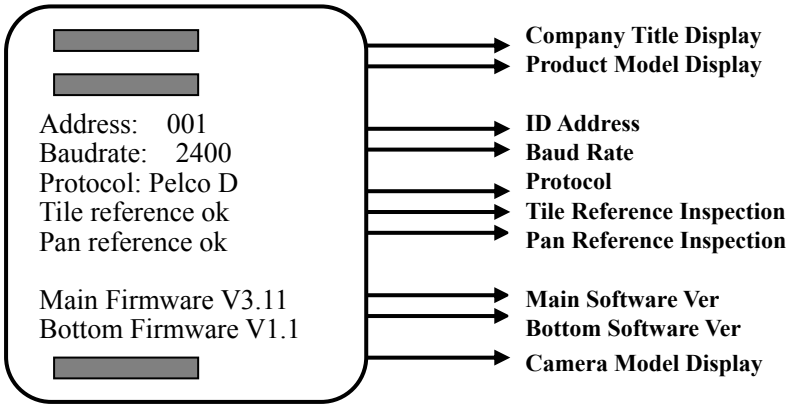


Basic Function Instruction of Menu

The serie-integreated PTZ dome belongs to built-in OSD menu, you can make various settings to cam, len, P/T and some system parameter through the menu. This chapter will give you a complete recognization to the PTZ dome and make settings easily and quickly as you like.

■ Self-Inspection Display While Power Supplied

Carry out self-inspection program after power supplied, and then the initial information will appears on the screen: company name, PTZ subject, controlling protocol, baud rate, ID as well as cam mode.



■ Basic Operation of Menu and Keyboard

The Basic operation of the menu: move menu strip, enter into sub-menu, return to up-menu, choose menu item, change fixed number, confirm, save and cancel setting.

1、Keyboard Function Instruments：

【OPEN】Iris open order. Stands for enlarging the iris when choosing picture. During menu setting, it refers to entering into sub-menu or certain item, as well as saving the appointed number .

【CLOSE】 Iris close order. Stands for minishing the iris when choosing picture. During menu setting, it refers to returning to sub-menu or certain item, as well as quitting the appointed number .

【FAR】 Far focus, stands for gathering far when setting pictures, indicating enlarging privacy zone left and right during menu privacy zones setting

【NEAR】Near focus, stands for gathering near when setting pictures, indicating minishing privacy zone left and right during menu privacy zones setting

【TELE】 Pull lens near, stands for increasing lens' enlarging times when setting pictures. indicating enlarging privacy zone up and down during menu privacy zones setting

【WIDE】 Push lens far, stands for decreasing lens' enlarging times when setting pictures. indicating minishing privacy zone up and down during menu privacy zones setting

P/T Upward：Stands for upward rotation of the camera when setting pictures. Indicates moving menuor changing settings upwards during setting menu

P/T Downward：Stands for downward rotation of the camera when setting pictures. Indicates moving menuor changing settings downwards during setting menu

P/T Rightward：Indicates rotation of cameras rightward

P/T Leftward：Indicates rotation of cameras leftward

❖ **Remarks**：When operating menu, you can quicken changing speed if you operate P/T continuously up and down. When choosing menu up and down, the cursor will skip the present item that can't be set.

2、Menu Signal Instruction：

→ The present cursor, the present item

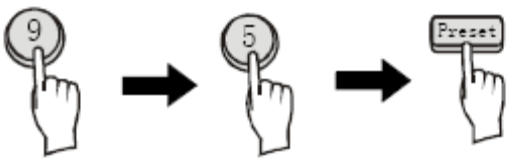
* The present choosen item

△ The item has sub-menu

Methods of Enter Into Main Menu

■ Methods of enter into main menu：

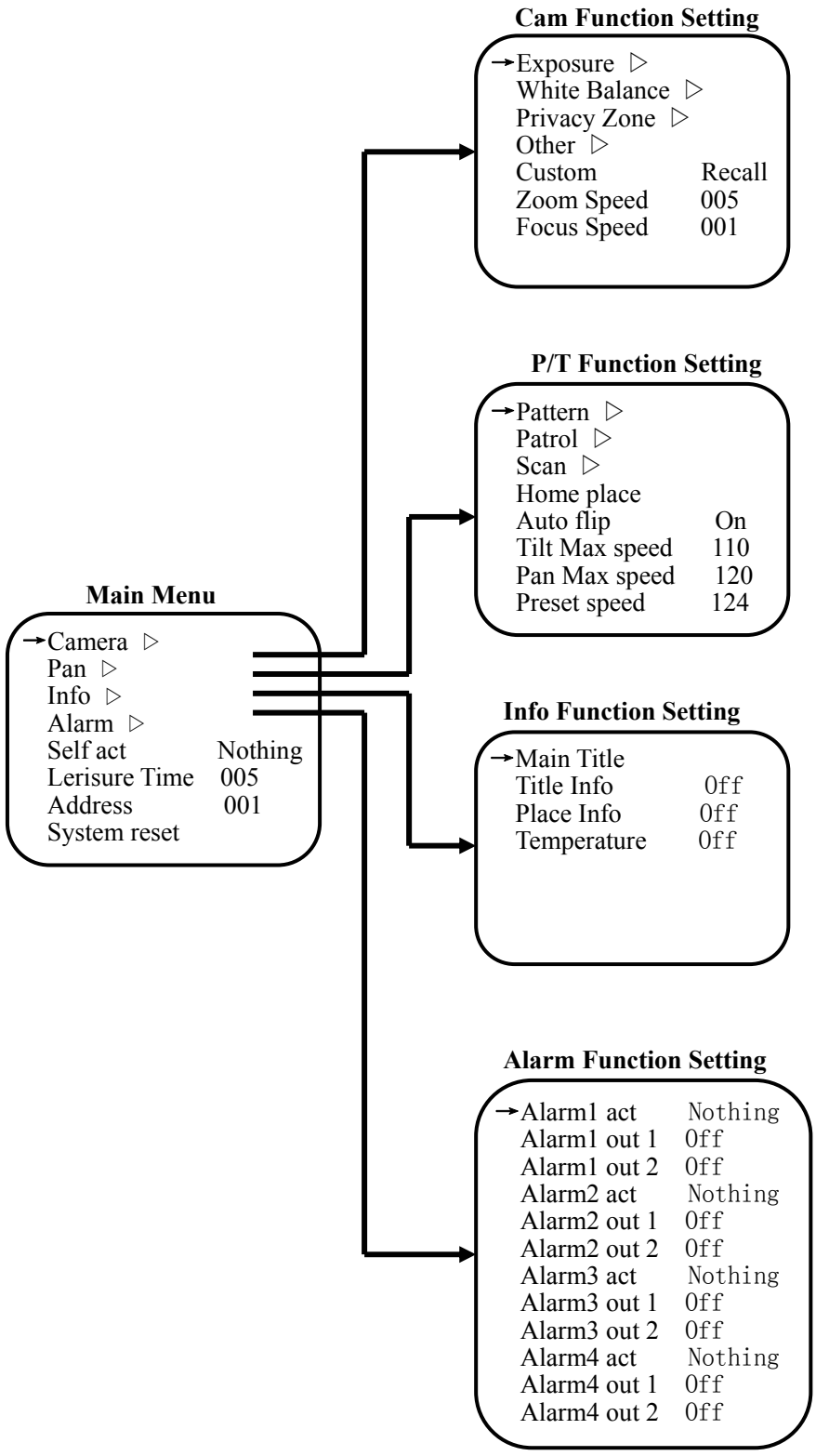
Call preset No.95 or No.64 to enter: press "9" "5" key, then Press "preset" or press "6" "4" , then "preset".



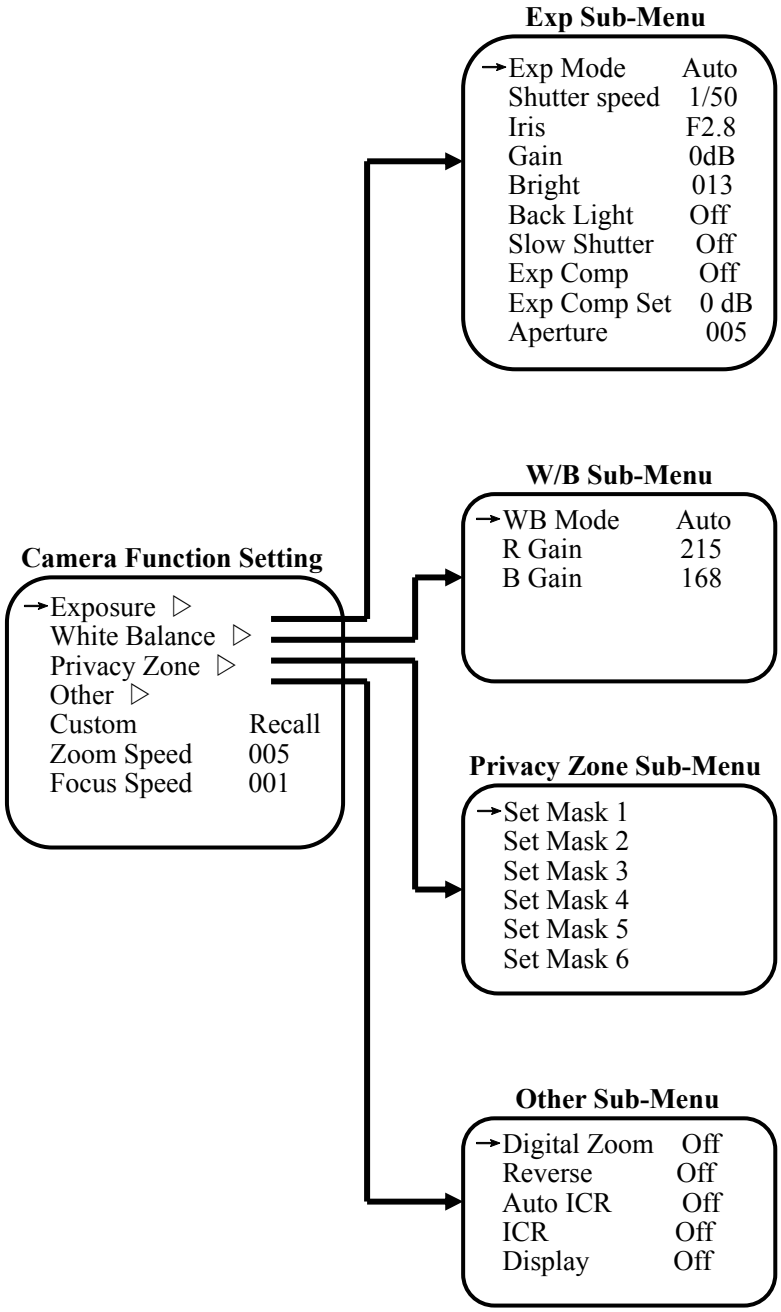
❖ **Remarks**：**The operation and program is taking PELCO's controlling system as example.**

The methods of calling main menu and presets may vary from manufacturer to manufacturer. F you use other's operation system , please take present keyboard as basis.

Menu Index

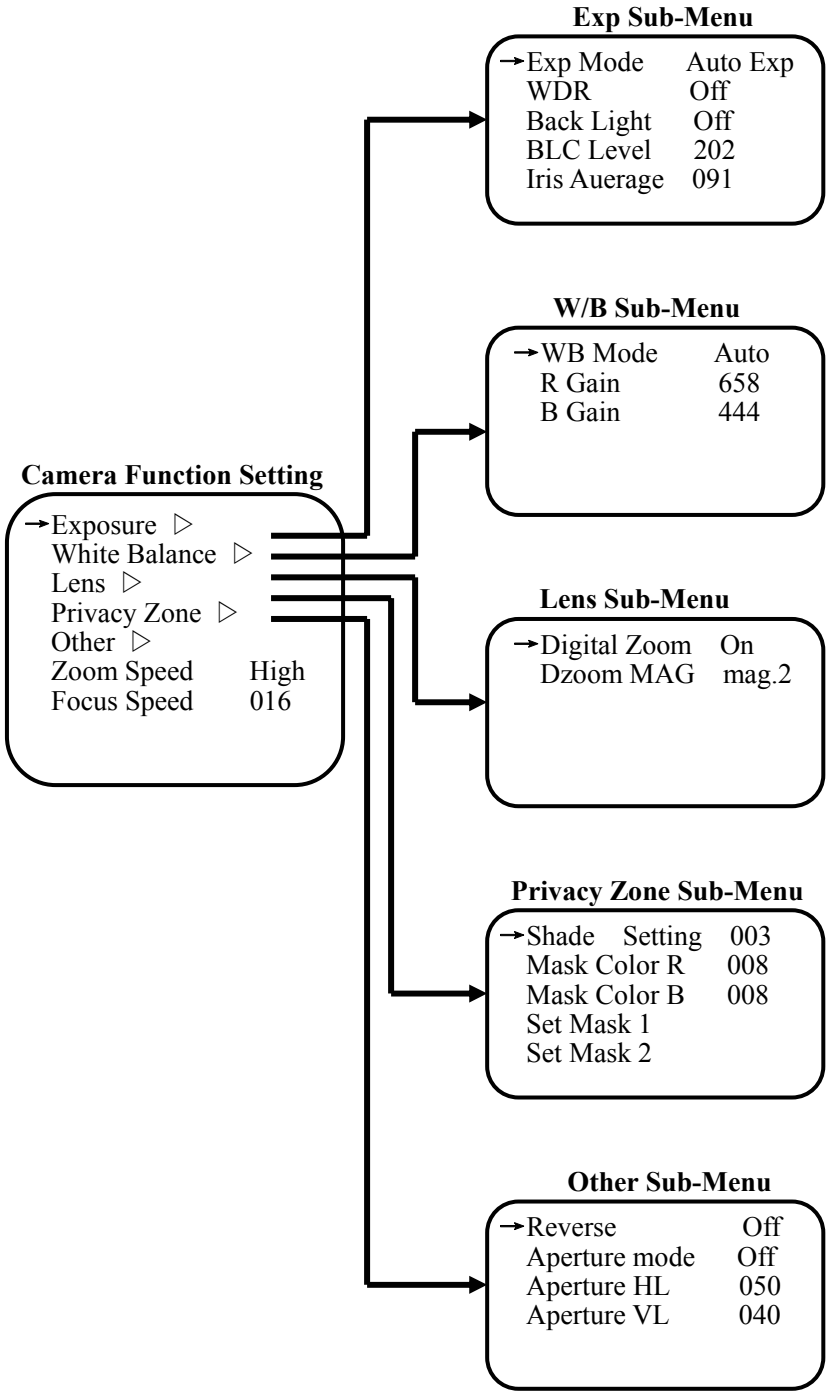

Cam Function Setting
→Exposure ▷
White Balance ▷
Privacy Zone ▷
Other ▷
Custom Recall
Zoom Speed 005
Focus Speed 001
P/T Function Setting
→Pattern ▷
Patrol ▷
Scan ▷
Home place
Auto flip On
Tilt Max speed 110
Pan Max speed 120
Preset speed 124
Main Menu
→Camera ▷
Pan ▷
Info ▷
Alarm ▷
Self act Nothing
Lerisure Time 005
Address 001
System reset
Info Function Setting
→Main Title
Title Info Off
Place Info Off
Temperature Off
Alarm Function Setting
→Alarm1 act Nothing
Alarm1 out 1 Off
Alarm1 out 2 Off
Alarm2 act Nothing
Alarm2 out 1 Off
Alarm2 out 2 Off
Alarm3 act Nothing
Alarm3 out 1 Off
Alarm3 out 2 Off
Alarm4 act Nothing
Alarm4 out 1 Off
Alarm4 out 2 Off

Sony: Camera Menu Index



❖ **Remarks**: **This is menu index of Sony camera function setting**

Hitachi: Camera Menu Index



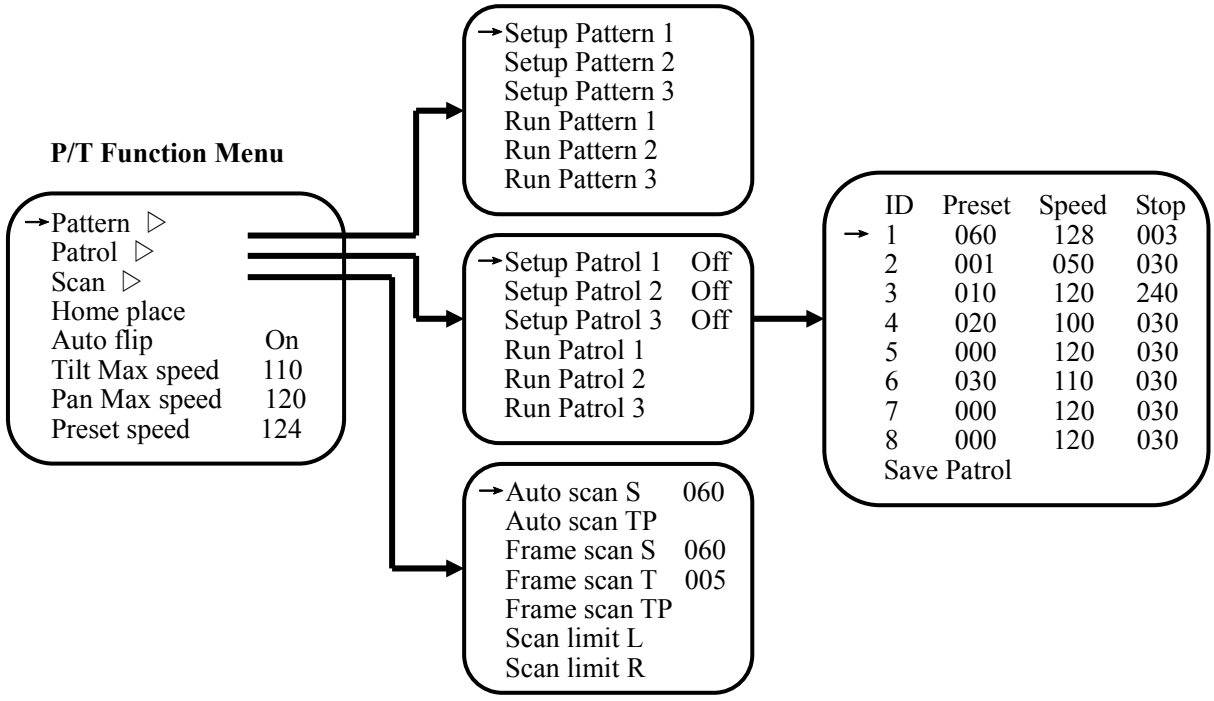
❖ **Remarks**: **This is menu index of Hitachi camera function setting.**

LG/CNB: Camera Menu Index

❖ **Remarks:** **The Menu of "LG/CNB" camera series is the function setting menu "LG/CNB" camera possess itself.**

As for the specific introduction of menu index, it is omitted. Concerning the details, please refer to inner function setting menu of "LG/CNB" cameras.

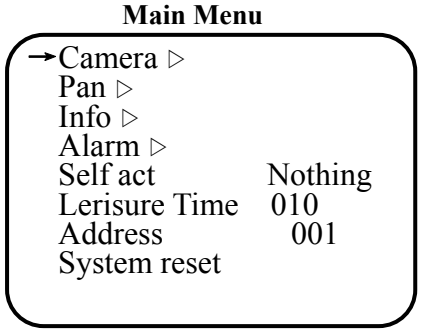
P/T Function Setting Menu Index



Main Menu Function Setting

This series PTZ processes built-in OSD with powerful function, all the functions can be operated by main menu easily and obviously:

Main menu Display:



A **Camera Setting**
B **P/T Setting**
C **Info Setting**
D **Alarm Setting**
E **Self act Setting**
F **Leisure T Setting**
G **ID Address**
H **System Reset Setting**

A Camera function setting

（refer to P18－53）

Through this item, users can set each parameter of camera in a flexible way according to different environmentor requirement.

B P/T Function Setting（refer to P54-68）

Through this item, users can set the folloeing function: pattern, patrol, scan, home place, auto flip, tilt max speed, pan max speed and preset speed.

C Info Function Setting（refer to P69-71）

Through this item, users can set the following items: 16 main title program, main menu display, Place information, inside real-time temperature display.

D Alarm Function Setting

（refer to P72-73）

Support 4ch alarm input, 2ch alarm output. Alarm function can be set through this item.

E Self-act Function Setting

（refer to P74）

Through this item, it will carry out the appointed conduct set by users when it is during leisure time or haven't received any effective orders.

F Leisure Time Setting（refer to P74）

From the time when it doesn't receive any orders, if still get no orders during the time fixed by users, it will carry out certain function set by users in "self -act" And leisure time should be 3-240s (available)

G Dome Structure ID Setting

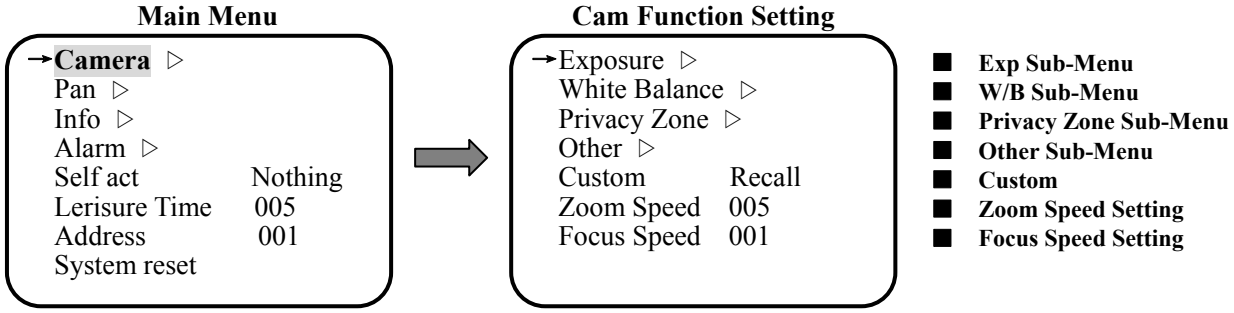
（refer to P75）

This series Dome ID belongs to soft setting, ID Address from No.1-255 can be set available

H System Reset Setting（refer to P76）

Through this item, users can set all system reset operation.

A Sony Camera Function Setting



Attention: **Cameras' menu may vary from manufacturer to manufacturer.**

The users can set up all the parameters of the sony camera through this item and can reach a flexible setting according to different environment and requirement.

■ Exp Sub-Menu (refer to P19-24)

The users can reach their needed picture effect through setting the exp mode: shutter speed, iris, gain, brightness, backlight compensation, electric shutter, compensation and aperture.

■ W/B Sub-Menu (refer to P25-27)

Through this item, whilt balance mode (manual/auto) available, red gain and blue gain adjustable.

■ Privacy Zones Sub-Menu

(refer to P28-29)

It support 6 privacy zones, and users can by this item.

■ Other Sub-Menu (refer to P30-33)

Through this item, we can set zoom speed,ICR and info display.

■ Customs Menu (refer to P34)

The users can set reset mode (recall, reset, set)

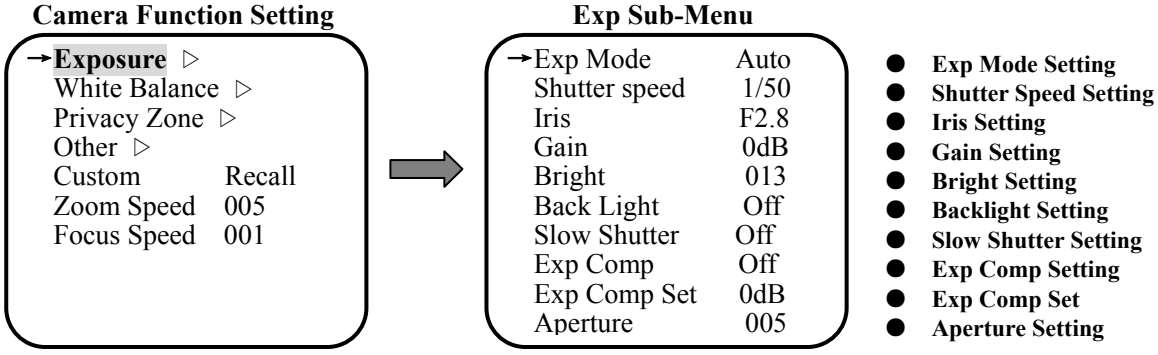
■ Zoom Speed Setting (refer to P35)

Zoom speed 0-7 grade adjustable.

■ Focus Speed Setting (refer to P35)

Focus speed 0-7 grade adjustable

■ Exposure Sub-menu Setting:



● Exp Mode Setting（refer to P20）

Level can be adjustable through exp parameter under different exp mode.

● Shutter Speed Setting（refer to P21）

It can be used under the condition of exp mode (manual) and Shutter P.

● Iris Setting （refer to P21）

It belongs to Iris P setting and can be used under the condition of exp mode (manual) and Shutter P.

● Gain Setting（refer to P22）

It can be used only the exp mode is manual.

● Brightness Setting（refer to P22）

It can be used only when exp mode is bright P

● B/L Compensation Setting（refer to P23）

It may cause shadow of the backlighting objects due to strong light. And iris can be adjustable a autoly to adapt different light changes and then make the picture more clear.

● Slow Shutter Setting（refer to P23）

When it is used during the night (lack of light), the picture will be more clear by using slow shutter to make light-capturing time long.

● Exp Compensation Setting（refer to P23）

The users can set this item, “on” or “off” means open or close

● Exp Compensation Set（refer to P24）

Only when the Exp Comp setting is on,can this item be set. And its set is ranging from -10.5-10.5.

● Aperture（refer to P24）

The bigger the figure, the more clear the picture; the smaller the figure, the softer the pictu

● Exp Mode Setting:

☞ Operating Method As follows:

1、Call preset 95 or 64 to enter into main menu.

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into camera function setting，

3、Move cursor and choose【**Exposure**】in the【**Camera**】, press【OPEN】key（namely open iris order）for conformation，enter into exp sub-menu setting.

4、Move cursor in【**Exposure**】 and chose 【**Exp Mode**】, press 【OPEN】 key（namely open iris order） for confirmation，enter into mode to choose setting item，
It can be set as follows:

【Auto】: Auto exp mode.it belongs to default setting，the camera can adjust suitable exp set according to the objects' brightness and CCD sensitivity autol. Under this mode, manual is not effective to set level

【Mauual】: Manual mode. Under this mode,any exp mode is available.

【ShutterP】: Shutter Priority Mode

【IrisP】: Iris priority mode

【Bright】: Brightness control priority

5、Use P/T up and down-ward order to change exp mode up and down.

6、 Press 【OPEN】key (open iris order) for confirmation, save exp mode setup and exit. Press 【CLOSE】 key (close iris order), lose exp mode setup and exit.

Main Menu

→**Camera** ▷	
Pan ▷	
Info ▷	
Alarm ▷	
Self act	Nothing
Lerisure Time	005
Address	001
System reset	

Cam Function Setting

→**Exposure** ▷	
White Balance ▷	
Privacy Zone ▷	
Other ▷	
Custom	Recall
Zoom Speed	005
Focus Speed	001

Exp Sub-menu Finction Setting

→**Exp Mode**	Auto
Shutter speed	1/50
Iris	F2.8
Gain	0dB
Bright	013
Back Light	Off
Slow Shutter	Off
Exp Comp	Off
Exp Comp Set	0dB
Aperture	005

Exp Mode Setting

* Exp Mode	**Auto**
Shutter speed	1/50
Iris	F2.8
Gain	0dB
Bright	013
Back Light	Off
Slow Shutter	Off
Exp Comp	Off
Exp Comp Set	0dB
Aperture	005

● Shutter speed setting:

☞ Operating method as follows:

1、Move cursor to choose 【**Shutter speed**】in the 【**Exposure**】. Presss 【OPEN】key (open iris order) for confirmation and enter into shutter speed setting.

2、Use P/T up and down-ward order to change shutter speed （1/1—1/3500） back and forth.

3、 Press【OPEN】key(open iris order) for confirmation, save shutter speed setting and exit. Press【CLOSE】key (close iris order) loseshutter speed setting and exit.

Attention:**Only when Exp Mode is "Manual" or "ShutterP", can it be set.**

Shutter Speed Setting

	Exp Mode	**Maunal**
*	Shutter speed	**1/50**
	Iris	F2.8
	Gain	0dB
	Bright	013
	Back Light	Off
	Slow Shutter	Off
	Exp Comp	Off
	Exp Comp Set	0 dB
	Aperture	005

Or

	Exp Mode	**ShutterP**
*	Shutter speed	**1/50**
	Iris	F2.8
	Gain	0dB
	Bright	013
	Back Light	Off
	Slow Shutter	Off
	Exp Comp	Off
	Exp Comp Set	0dB
	Aperture	005

● Iris Setting:

☞ Operating method as follows:

1、 Move cursor to chose 【**Iris**】 in the【**Exposure**】. Press 【OPEN】key (open iris order) for confirmation, enter into iris setting item

2、 Use P/T up and down-ward order to change iris P(Close、F1.4－F22).

3、Press 【OPEN】key (open iris order) for confirmation and save iris P setting and exit , Press【CLOSE】key (close iris order), lose iris P setting and exit.

Attention: **Only when Exp Mode is "Maunal" or "IrisP", can this item be set.**

Iris Setting Item

	Exp Mode	**Maunal**
	Shutter speed	1/50
*	Iris	**F2.8**
	Gain	0dB
	Bright	013
	Back Light	Off
	Slow Shutter	Off
	Exp Comp	Off
	Exp Comp Set	0 dB
	Aperture	005

or

	Exp Mode	**IrisP**
	Shutter speed	1/50
*	Iris	**F2.8**
	Gain	0dB
	Bright	013
	Back Light	Off
	Slow Shutter	Off
	Exp Comp	Off
	Exp Comp Set	0dB
	Aperture	005

● Gain Setting：

☞ Operating method as follows:：

1、Move cursor to choose 【**Gain**】in the【**Exposure**】. Press 【OPEN】key (open iris order) for confirmation, enter into gain setting item

2、Use P/T up and down-ward order to change gain level value (-3dB－28dB).

3、Press【OPEN】key (open iris order), save gainsettingand exit. Press 【CLOSE】key (close the iris), lose the gain setting and exit.

Attention： **Only when Exp Modei is "Maunal", can this item be set.**

Gain Setting

	Exp Mode	Maunal
	Shutter speed	1/50
	Iris	F2.8
*	Gain	**0dB**
	Bright	013
	Back Light	Off
	Slow Shutter	Off
	Exp Comp	Off
	Exp Comp Set	0 dB
	Aperture	005

●Bright Setting：

☞ Operating method as follows:

1、Move cursor to choose 【**Bright**】in the【**Exposure**】. Press 【OPEN】key (open iris order) for confirmation, enter into bright setting item.

2、Use P/T up and down-ward order to change bright control level(0－31)

3、Presss 【OPEN】key (open iris order) for confirmation and save bright setting and exit. Press【CLOSE】key (close iris order) lose bright setting and exit.

Attention： **Only when Exp Mode is "Bright", can this item be set.**

Brightness Control

	Exp Mode	Auto
	Shutter speed	1/50
	Iris	F2.8
	Gain	0dB
*	Bright	**013**
	Back Light	Off
	Slow Shutter	Off
	Exp Comp	Off
	Exp Comp Set	0 dB
	Aperture	005

● Back Light Setting：

☞ Operating method as follows:

1、Move cursor to chose 【**Back Light**】inthe【**Exposure**】. Presss 【OPEN】key (open iris order) for confirmation and enter into Back light Setting item.

2、Use P/T up and down-ward order to change B/Lcompensation (ON/OFF, namely open or close B/L Compensation function.)

3、Presss 【OPEN】key (open iris order), save B/Lcompensation setting and exit. Press【CLOSE】key (close iris order) lose B/L compensation setting and exit.

B/L Comp Setting

	Exp Mode	Auto
	Shutter speed	1/50
	Iris	F2.8
	Gain	0dB
	Bright	013
*	Back Light	**Off**
	Slow Shutter	Off
	Exp Comp	Off
	Exp Comp Set	0 dB
	Aperture	005

Attention：Only when Exp Mode is "Auto", can this item be set.

● Slow Shutter Setting：

☞ Operating method as follows:

1、Move cursor to choose【**Slow Shutter**】in the【**Exposure**】. Presss 【OPEN】key (open iris order) for confirmation and enter into slow shutter setting items

2、Use P/T up and down-ward order to change slow shutter level (ON/OFF, namely open or close slow speed setting)

3、Presss 【OPEN】key (open iris order), save slow shutter setting and exit. Press【CLOSE】key (close iris order) lose slow shutter setting and exit.

Slow Shutter Setting

	Exp Mode	Auto
	Shutter speed	1/50
	Iris	F2.8
	Gain	0dB
	Bright	013
	Back Light	Off
*	Slow Shutter	**Off**
	Exp Comp	Off
	Exp Comp Set	0 dB
	Aperture	005

● Exp Comp Setting：

☞ Operating method as follows:

1、Move cursor to choose 【**Exp Comp**】in the【**Exposure**】. Presss 【OPEN】key (open iris order) for confirmation, enter into Exp Comp Setting Items.

2、Use P/T up and down-ward order to change Exp Comp setting (ON/OFF)。

3、Presss 【OPEN】key (open iris order), save ExpComp Setting and exit. Press【CLOSE】key (close iris order) lose Exp Comp Setting and exit.

Exp Comp Setting

	Exp Mode	Auto
	Shutter speed	1/50
	Iris	F2.8
	Gain	0dB
	Bright	013
	Back Light	Off
	Slow Shutter	Off
*	Exp Comp	**Off**
	Exp Comp Set	0 dB
	Aperture	005

● Exp Comp Set Setting:

☞ Operating method as follows:

1、Move cursor to choose 【**Exp Comp Set**】in the 【**Exposure**】. Presss 【OPEN】key (open iris order) for confirmation, enter into Exp Comp Set Setting items.

2、Use P/T up and down-ward order to change exp comp set(-10.5－10.5)。

3、 Presss 【OPEN】key (open iris order) , save exp comp set Setting and exit. Press【CLOSE】key (close iris order) lose exp comp set setting and exit

Exp Comp Set Setting

	Exp Mode	Auto
	Shutter speed	1/50
	Iris	F2.8
	Gain	0dB
	Bright	013
	Back Light	Off
	Slow Shutter	Off
	Exp Comp	Off
*	Exp Comp Set	**0dB**
	Aperture	005

Attention：Only when Exp Mode is "On"，can this item be set.

● Aperture Setting:

☞ Operating method as follows:

1、Move cursor to choose 【**Aperture**】in the【**Exposure**】 Presss 【OPEN】key (open iris order) for confirmation, enter into Aperture Steeing items.

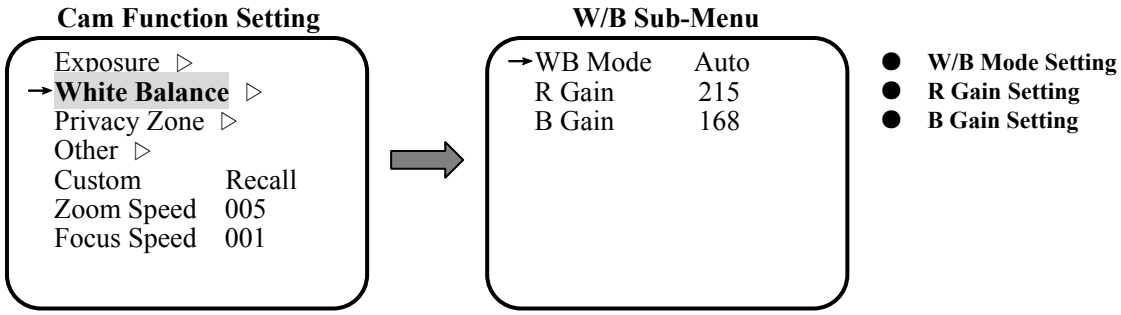
2、Use P/T up and down-ward order to change aperture setting(0－15).

3、Presss 【OPEN】key (open iris order) save aperture setting and exit. Press【CLOSE】key (close iris order) lose aperture setting

Aperture Setting

	Exp Mode	Auto
	Shutter speed	1/50
	Iris	F2.8
	Gain	0dB
	Bright	013
	Back Light	Off
	Slow Shutter	Off
	Exp Comp	Off
	Exp Comp Set	0 dB
*	Aperture	**005**

■ White Balance Sub-Menu：



● W/B Mode Setting（refer to P26）

Support many W/B modes，Auto/Maunal/ATW/OPW/Outdoor/Indoor）

● R Gain Setting（refer toP27）

R Gain Setting（0-255），Only when W/B mode is manual, can this item be effective.

● B Gain Setting（refer to P27）

B Gain Setting（0-255），Only when W/B mode is manual, can this item be effective.

● WB Mode Setting：

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into main menu.

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into camera function setting，

3、Move cursor to choose【**White Balance**】in the【**Camera**】Presss【OPEN】key (open iris order) for confirmation, enter into W/B mode setting items.

4、Move cursor to choose【**WB Mode**】in the【**White Balance**】. Presss 【OPEN】key (open iris order) for confirmation, enter into W/B mode setting items.

The following items are available：

【Auto】: Auto mode；belongs to acquiescent item, it will restore the true color after envieonment detection by W/B sensor of camer.

【Maunal】: Manual mode； R Gain and B Gain can be adjusted under this item.

【ATW】: auto track mode

【OPW】: singal lock mode

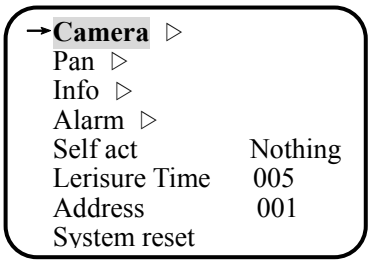
【Outdoor】: outside mode， code hue

【Indoor】: inside mode，warm hue

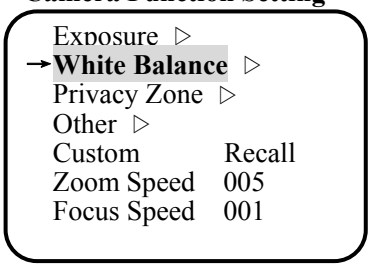
5、Use P/T up and down-ward order to change the needed W/B mode.

6、Presss 【OPEN】key (open iris order) to save W/B mode setting and exit. Press【CLOSE】key (close iris order) lose W/B mode setting and exit.

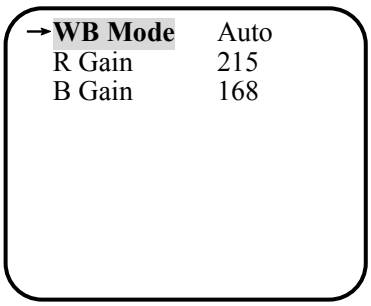
Main Menu



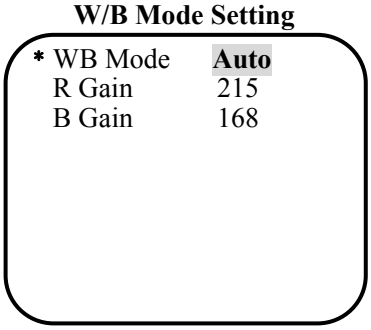
Camera Function Setting



W/B Sub-Menu



W/B Mode Setting



● R Gain Setting：

☞ Operating method as follows:

R Gain Setting

	WB Mode	**Maunal**
*	R Gain	**215**
	B Gain	168

1、Move cursor to choose【**R Gain**】in the【**White Balance**】. Presss 【OPEN】key (open iris order) for confirmation, enter into R Gain Setting items.

2、Use P/T up and down-ward order to change R Gain setting(0－255). the bigger the chosen fingure, the more the R gain , means hue becomes warm

3、Presss【OPEN】key (open iris order) to save R Gain Setting and exit. Press【CLOSE】key (close iris order) lose R Gain Setting and exit.

Attention：Only when Exp Mode is "Maunal"，can this iten be set

● B Gain Setting ：

☞ Operating method as follows：

B Gain Setting

	WB Mode	**Maunal**
	R Gain	215
*	B Gain	**168**

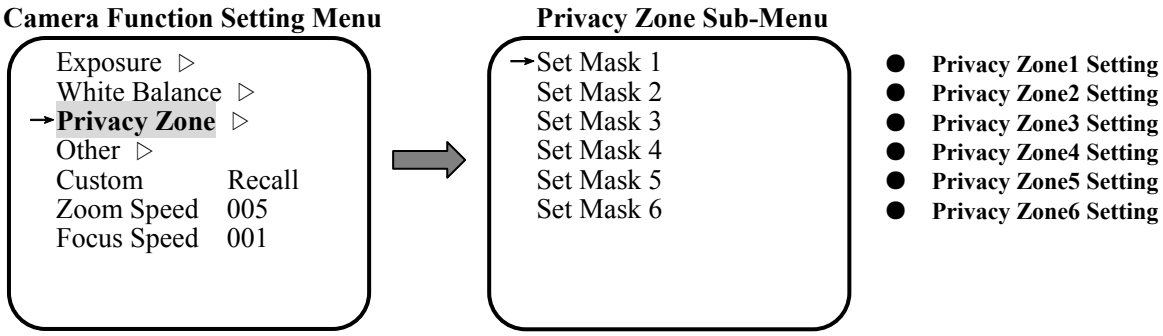
1、Move cursor to choose【**B Gain**】in the【**White Balance**】. Presss 【OPEN】key (open iris order) for confirmation, enter into B Gain Setting items.

2、Use P/T up and down-ward order to change B Gain setting(0－255). the bigger the chosen fingure, the more the B gain , means hue becomes cold

3、Presss【OPEN】key (open iris order) to save B Gain Setting and exit. Press【CLOSE】key (close iris order) lose B Gain Setting and exit.

Attention：Only when WB Mode is "Maunal"can this item be set.

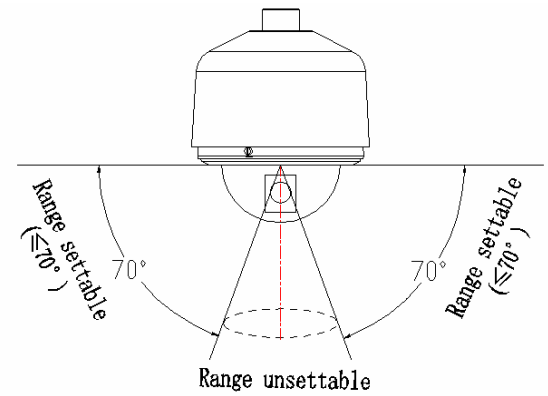
■ Privacy Zone Sub-Menu Setting:



The privacy zones can protect a certain aera .The users can cover the privacy zones by this item, and it can support 6 privacy zones at most. (The area can be set freely) And the privacy zone can be moved along with Dome structure.

❖ **Remarks: 1、Privacy zones is connected with built-in camera model，it may be a little difference about the privacy zones that different camera model support.**

2、6 privacy zones are available for Sony camera. Privacy zones can not be set when the dome's vertical degree is ≥70°
Picture as follows:



3、LG、CNB series don't support privacy zones.

● Set Mask 1

☞ Operating method as follows:

1、 Call preset 95 or 64 to enter into the main menu.

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into camera function setting，

3、 Move the cursor to choose 【**Privacy Zone**】in the 【**Camera**】Press 【OPEN】key (namely open the iris order) for confirmation to enter into privacy zones setting items.

4、Move the cursor to choose 【**Set Mask 1**】inthe【**Privacy Zone**】. **Press** 【OPEN】 key(namely open the iris) for confirmation, enter into privacy zones setting, then web-style window will appears on the monitor's screen and separate it into many panes.

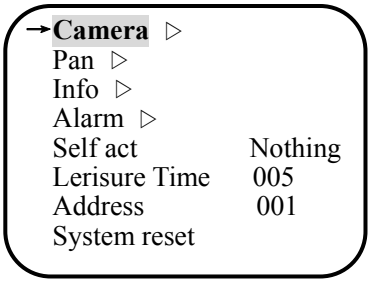
5、Aim at the object or location needed to protect through moving the dome by user，**Press** 【OPEN】 key(namely open the iris) for confirmation, enter into privacy zones setting, then a small black privacy zones will appears in the center of the monitor's screen.

6、 To adjust the size of black privacy zones to the needed location according to the practical size. Press 【FAR】 key: far focus order. Enlarge privacy zones size right and left synchronically. Press【NEAR】key: near focus order. Minish privacy zones size right and left synchronically. Press【TELE】order，Enlarge privacy zones size up and down synchronically. Press【WIDE】order，Minish privacy zones size up and down synchronically.

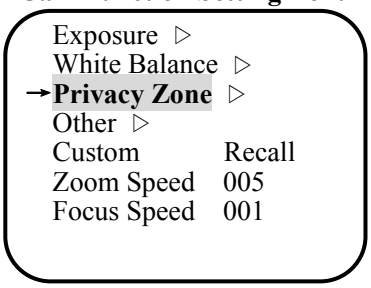
7、 Press【OPEN】key (namely open the iris order), save the present privacy zones setting and exit.Press 【CLOSE】 key (namely close the iris order)，lose the present privacy zones setting and exit.

❖ **Explaination：** **All the privacy zones setting methods are the same. Concerning the details, please refer to the Set Mask 1.**

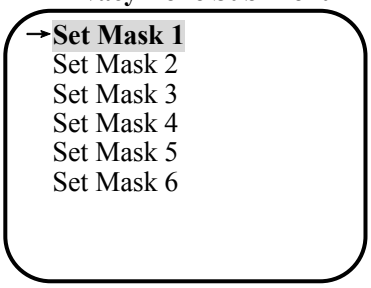
Main Menu

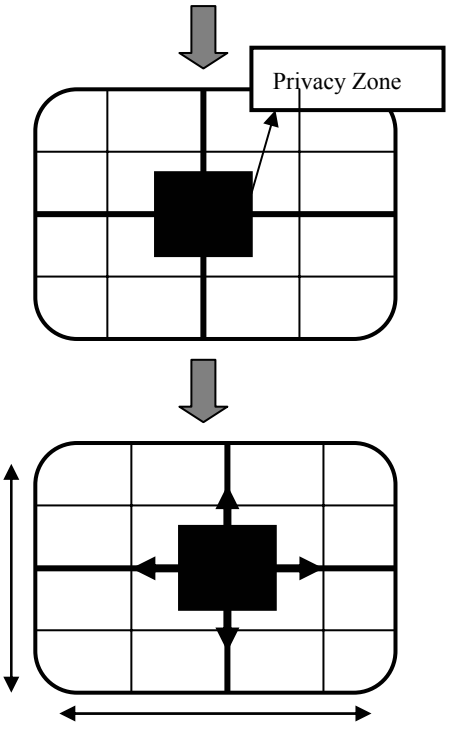


Cam Function SettingMenu

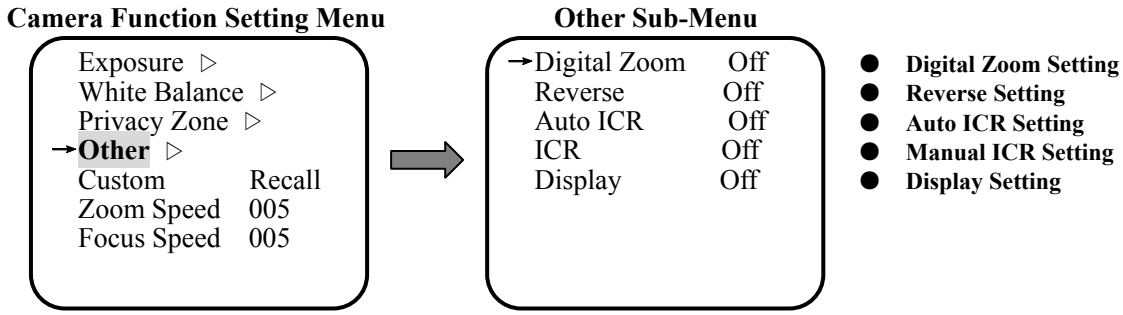


Privacy Zone Sub-menu





■ Other Sub-Menu：



● Digital Zoom Setting（refer to P31）

It can be On or Off. When it is on, the dome's biggest zoom is Optical zoom X Digital zoom. When it is off, the dome's biggest zoom is Optical zoom

● Reverse Setting（refer to P32）

When it is on, the horizontal picture will be display reversedly.

● Auto ICR（refer to P32）

Color used during the day, B/W during the night. Through this item, it can not only ensure picture quality but also save memoried space. It can be set On or Off (namely open or close auto ICR

● Manual ICR（refer to P33）

It belongs to manual switch from C to B/W.The users can set whether the present picture is C or B/W.

● Info Display Setting（refer to P33）

It can be set On or Off. If it is on, the camera itself built-in special icon will appears on the screen when the dome is carrying out some function.

● Digital Zoom Setting：

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into the main menu

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into camera function setting，

3、Move the cursor to choose【**Other**】in the【**Camera**】.Press【OPEN】key (namely open the iris order) for confirmation，enter into "Other" Sub-Menu setting items

4、Move the cursor to choose 【**Digital Zoom**】in the 【**Other**】. Press【OPEN】 key (namely open the iris order) for confirmation, enter into Digital Zoom setting items.

5、Use P/T up and down-ward order to change Digital zoom setting. Choose "On" means open Digital Zoom Control (namely when the optical zoom reaches the largest zoom, if we still carry out the "pulling lens near" order, the dome will enter into "digital zoom"). Choose "Off" means close Digital Zoom Control

6、Press【OPEN】 key (open the iris order), save the setting and exit. Press【CLOSE】key (close the iris order) lose the setting and exit.

❖ **Remarks**：**When "Digital Zom Setting" is "on", the dome's biggest zoom is Optical zoom X Digital zoom. When "Digital Zoom Setting" is "off", the dome's biggest zoom is Optical zoom**

Main Menu

→**Camera** ▷	
Pan ▷	
Info ▷	
Alarm ▷	
Self act	Nothing
Lerisure Time	005
Address	001
System reset	

Camera Function SettingMenu

Exposure ▷	
White Balance ▷	
Privacy Zone ▷	
→**Other** ▷	
Custom	Recall
Zoom Speed	005
Focus Speed	001

Other

→**Digital Zoom**	Off
Reverse	Off
Auto ICR	Off
ICR	Off
Display	Off

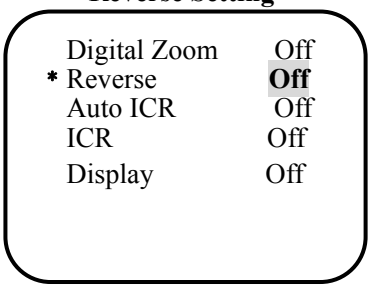
Digital Zoom Setting

* Digital Zoom	**Off**
Reverse	Off
Auto ICR	Off
ICR	Off
Display	Off

● Reverse Setting

☞ Operating method as follows:

Reverse Setting



1、Move the cursor to choose 【Reverse】in the【**Other**】. Press【OPEN】 key (open the iris order) for confirmation, enter into "Reverse Setting Items.

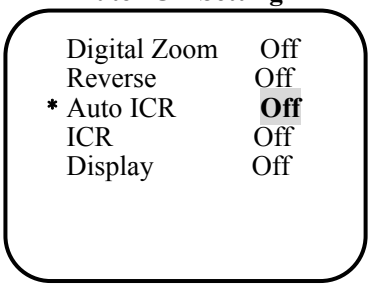
2、Use P/T up and down-ward order to change "Reverse Setting ". When it is "On", it stands for "Open Reverse Setting".(the horizontal pictures is taking center as axis of rotation). When it is "Off", it stands for horizontal pictures in normal situation.

3、Press【OPEN】key (open the iris order), save the setting and exit. Press 【CLOSE】 key (close the iris order) lose the setting and exit.

● Auto ICR Setting ：

☞ Operating method as follows:

Auto ICR Setting



1、 Move the cursor to choose 【**Auto ICR**】in the【**Other**】. Press【OPEN】 key (open the iris order) for confirmation, enter into "Auto ICR Setting Items"

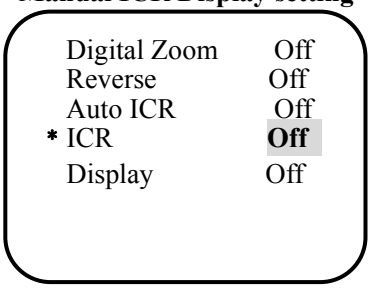
2、Use P/T up and down-ward order to change "Auto ICR Setting" When it is "On", it stands for "Open Auto ICR Setting"(The dome will carry out this item according to the illumination). When it is "On", it stands for "Close Auto ICR Setting"

3、 Press【OPEN】 key (open the iris order), save the setting and exit. Press 【CLOSE】 key (close the iris order) lose the setting and exit.

● ICR Setting：

☞ Operating method as follows:

Manual ICR Display setting



1、Move the cursor to choose 【**ICR**】in the【**Other**】. Press 【OPEN】key (open the iris order) for confirmation, enter into "ICR Setting Items"

2、Use P/T up and down-ward order to change " ICR Setting" When it is "On", it stands for pictures changing into B/W. When it is "Off", it stands for pictures changing into Color.

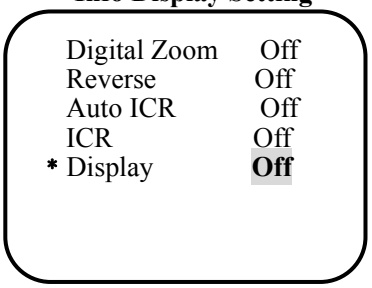
3、Press【OPEN】key (open the iris order), save the setting and exit.Press 【CLOSE】 key (close the iris order) lose the setting and exit.

Attention: Only when Auto ICR is "Off", can this item be set.

● Display Setting：

☞ Operating method as follows:

Info Display Setting



1、 Move the cursor to choose【**Display**】in the【**Other**】. Press 【OPEN】key (open the iris order) for confirmation, enter into "Display Setting Items"

2、Use P/T up and down-ward order to change " Display Setting" When it is "On", it stands for"Open Display Setting"(Various Function Icons will appear on the screen) When it is "Off", it stands for"Close Display Setting"(Various Function Icons will appear on the screen)

3、Press【OPEN】key (open the iris order), save the setting and exit. Press 【CLOSE】 key (close the iris order) lose the setting and exit.

Attention: This function is connected with built-in camera models and this parameters.

■ Custom Setting：

☞ Operating method as follows:

1、 Call preset 95 or 64 to enter into the main menu.

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into camera function setting，

3、Move the cursor to choose 【**Custom**】in the【**Camera**】 Press【OPEN】 key (open the iris order) for confirmation, enter into "Custom Setting Items"

The following items are available：

【Recall】: Recall Windows Default

【Reset】: restoration，get back to the default valuewhile leaving factory

【Set】: setting, set the current value as dome default

4、Use P/T up and down-ward order to change the needed modes.

5、Press【OPEN】key (open the iris order), save the setting and exit.Press 【CLOSE】 key (close the iris order) lose the setting and exit.

Attention：when carry out the function【**Reset**】, **the camera default value will be restored, but not dome default value.After the implement of【Reset】, the dome's power has to be supplied again or execute the function of【Recall】 to come back to the camera default value.**

Main Menu

```
→Camera ▷
 Pan ▷
 Info ▷
 Alarm ▷
 Self act          Nothing
 Lerisure Time     005
 Address           001
 System reset
```

Camera Function Setting

```
 Exposure ▷
 White Balance ▷
 Privacy Zone ▷
 Other ▷
→Custom            Recall
 Zoom Speed        005
 Focus Speed       001
```

Custom Setting

```
 Exposure ▷
 White Balance ▷
 Privacy Zone ▷
 Other ▷
* Custom           Recall
 Zoom Speed        005
 Focus Speed       001
```

■ Zoom Speed Setting:

☞ Operating method as follows:

1、 Call preset 95 or 64 to enter into the main menu.

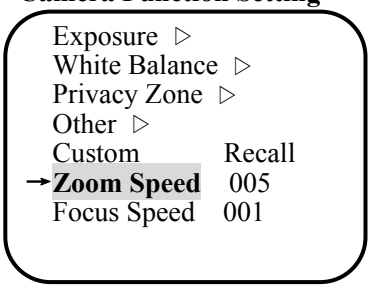
2、Move cursor to choose【**Camera**】, press【OPEN】(open iris order) for confirmation, enter into camera function setting,

3、Move the cursor to choose 【**Zoom Speed**】in the 【**Camera**】Press【OPEN】key (open the iris order) for confirmation, enter into "Zoom Speed Setting Items"

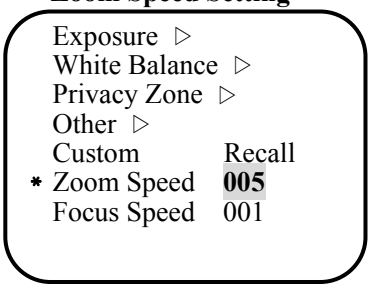
4、Use P/T up and down-ward order to change "Zoom speed" (0-7rank selectable from the slowest to the highest)

5、 Press【OPEN】 key (open the iris order), save the setting and exit. Press【CLOSE】key (close the iris order) lose the setting and exit.

Camera Function Setting



Zoom Speed Setting



■ Focus Speed Setting:

☞ Operating method as follows:

1、 Call preset 95 or 64 to enter into the main menu.

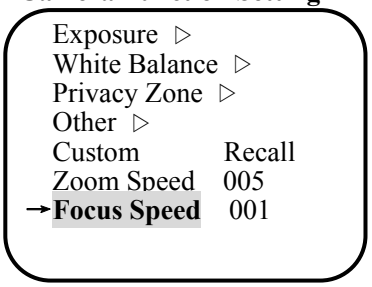
2、Move cursor to choose【**Camera**】, press【OPEN】(open iris order) for confirmation, enter into camera function setting,

3、 Move the cursor to choose 【**Focus Speed**】in the 【**Camera**】Press【OPEN】key (open the iris order) for confirmation, enter into "Focus Speed Setting Items"

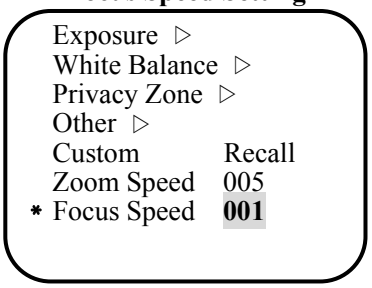
4、Use P/T up and down-ward order to change "Focus speed" (0-7rank selectable from the slowest to the highest)

5、Press【OPEN】 key (open the iris order), save the setting and exit.Press 【CLOSE】 key (close the iris order) lose the setting and exit.

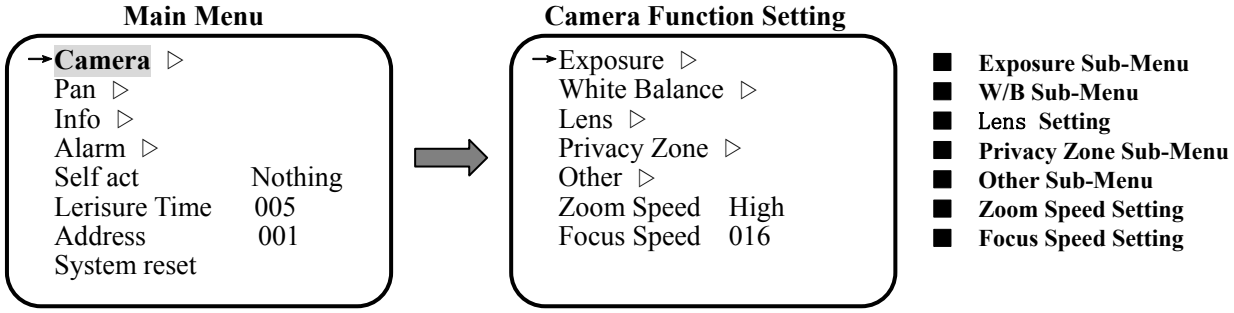
Camera Function Setting



Focus Speed Setting



A Hitachi Camera Function Setting



Attention: Cameras' menu may vary from manufacturerto manufacturer, as for the details, please refer to the cooresponding function setting instruction of cameras

The users can set up all the parameters of the Hitachi camera through this item and can reach a flexible setting according to different environment and requirement.

■ Exp Sub-Menu (refer to P37-40)

The users can reach their needed picture effect through setting the exp mode: wide dynamic range, backlight compensation,B/L compensation level, iris average level..

■ W/B Sub-Menu (refer to P41-43)

Through this item, whilt balance mode (manual/auto) available, red gain and blue gain adjustable.

■ Len Parameter Sub-Menu

(refer to P44-45)

Users can set lens parameter of Hitachi by this item.

■ Privacy Zone Sub-Menu (refer to P46-48)

This series dome(Hitachi camera) can support 2 privacy zones at most. The users can set privacy zones through this item.

■ Other Sub-Menu (refer to P49-51)

Through this item, users can set aperture and aperture mode.

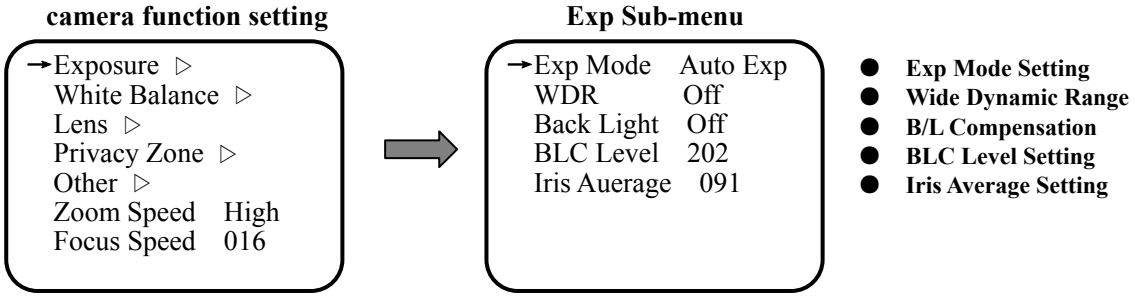
■ Zoom Speed Setting (refer to P52)

Zoom speed adjustable (High/Normal) by this item.

■ Focus Speed Setting (refer to P52)

Focus speed adjustable by this item (0-31grade selectable)

■ Exposure Sub-Menu Setting



● Exp Mode Setting（refer to P38）

Different exp mode(Hitachi Camera) can be settable, such as Auto EXP and AE DSS.

● Wide Dynamic Range（refer to P39）

It is wide dynamic range setting, when both strong light(sunlight, lamps…) area and poor light area are existing in the image at the same time, it will lead to bright area become white, dark area become black, affecting the image quality seriously. And the wide dynamic range function can solve this problem: make dark area become more bright, bright area more soft, ensuring a good video effct.

● B/L Comp Mode Setting（refer to P39）

It can be set On or Off by this item!

● B/L Comp Set （refer to P40）

Only when “Back Light” is On, can this I tem be set, and B/L Comp set from 0～255 selectabl.

● Len Averrage Setting（refer to P40）

Camera iris brightnesscan be adjustable from 0～255selectable through this item.

● Exp Mode Setting:

☞ Operating Method As follows：

1、Call preset 95 or 64 to enter into main menu.

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order ）for confirmation，enter into camera function setting menu，

3、Move cursor and choose 【**Exposure**】in the【**Camera**】, press【OPEN】key（namely open iris order）for conformation，enter into exp sub-menu setting.

4、Move cursor in【**Exposure**】and chose【**Exp Mode**】, press 【OPEN】 key（namely open iris order） for confirmation，enter into mode to choose setting item，
It can be set as follows:

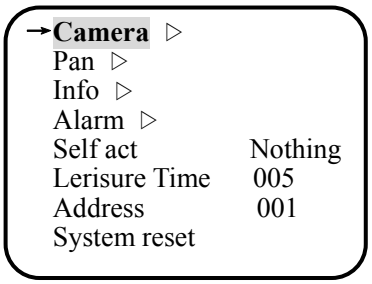
【Auto Exp】: Auto exp mode.it belongs to default setting，the camera can adjust suitable exp set according to the objects' brightness and CCD sensitivity autoly.

【AE DSS】: Digital Slow Shutter Mode; When the cameras are used in the night or dark area, the image on the screen will not be clear due to lacking of light. While through setting full shutter speed, prolong light-capturing time, the image in the night will become more clear.

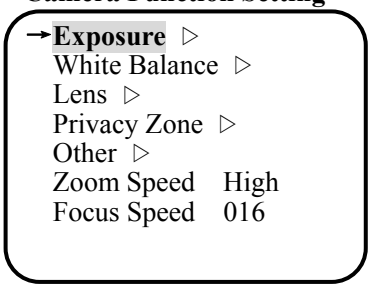
5.、Use P/T up and down-ward order to change exp mode up and down.

6、Press 【OPEN】key (open iris order) for confirmation, save exp mode setup and exit. Press 【CLOSE】 key (close iris order), lose exp mode setup and exit.

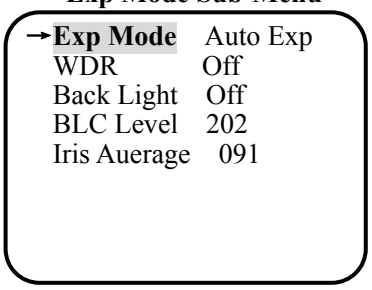
Main Menu



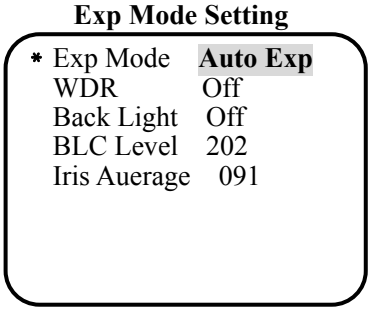
Camera Function Setting



Exp Mode Sub-Menu



Exp Mode Setting



● WDR Setting:

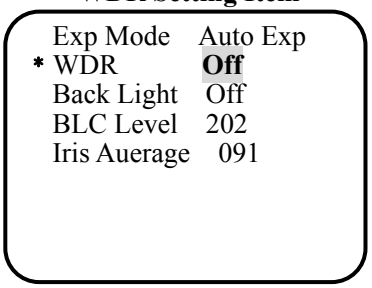
☞ Operating Methods As Follows：

1、 Move cursor to choose【**WDR**】in the 【**Exposure**】,press 【OPEN】（namely open iris order）for confirmation，enter into WDR setting items；

2、 Use P/T up and down-ward order to change WDR mode up and down, On or Off selectable.

3、 Press【OPEN】key (open iris order) for confirmation, save WDR mode setup and exit. Press 【CLOSE】 key (close iris order), lose WDR mode setup and exit.

WDR Setting Item



● Back Light Mode Setting:

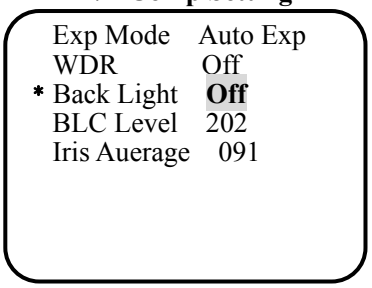
☞ Operating Methods As Follows：

1、 Move cursor to choose【**Back Light**】in【**Exposure**】,press 【OPEN】（namely open iris order）for confirmation，enter into B/L comp mode setting,

2、 Use P/T up and down-ward order to change BL Mode mode up and down, On or Off selectable.

3、 Press 【OPEN】key (open iris order) for confirmation, save BL mode setup and exit. Press 【CLOSE】 key (close iris order), lose BL mode setup and exit.

B/L Comp Setting



● BLC Level Setting:

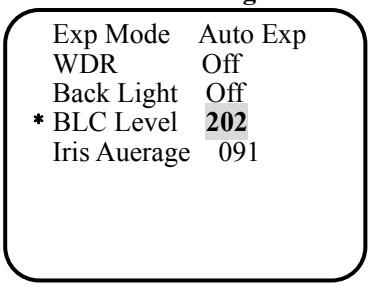
☞ Operating Methods As Follows：

1、 Move cursor to choose【**BLCLevel**】in【**Exposure**】,press 【OPEN】（namely open the iris order）for confirmation，enter into BLC Level setting item.

2、 Use P/T up and down-ward order to change BLC Level up and down from 0～255 selectable.

3、Press 【OPEN】key (open iris order) for confirmation, save BLC Level setup and exit. Press 【CLOSE】 key (close iris order), lose BLC Level setup and exit.

B/L Level Setting Item



Attention： Only when "Back Light" is "On"，can this item be set.

● Iris Average Setting：

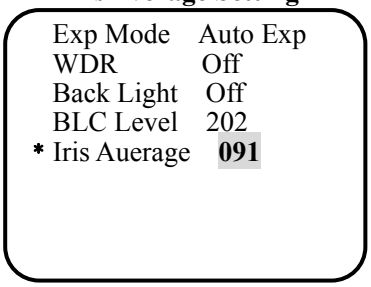
☞ Operating Methods As Follows：

1、Move cursor to choose【**Iris Average**】in【**Exposure**】,press 【OPEN】（open the iris order）for confirmation，enter into Iris Average setting item.

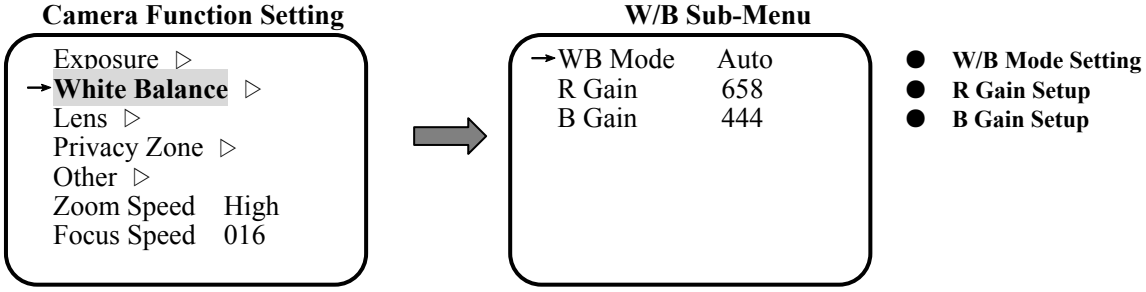
2、 Use P/T up and down-ward order to change Iris Average up and down from 0～255 selectable.

3、Press 【OPEN】key (open iris order) for confirmation, save Iris Average setup and exit. Press 【CLOSE】 key (close iris order), lose Iris Average setup and exit.

Iris Average Setting



■ White Balance Menu Setting：



● W/B Mode Setting（refer to P42）

This series cameras (Hitachi) support two kind of W/B Mode：Auto/Maunal

● R Gain Setting（refer to P43）

It belongs to “R Gain Setting”（640-767），only when W/B Mode is “Manual”, can it is effective.

● B Gain Setting（refer to P43）

It belongs to “B Gain Setting”（384-511），only when W/B Mode is “Manual”, can it is effective.

● WB Mode Setting：

☞ Operating Methods As Follows：

1、 Call preset 95 or 64 to enter into main menu.

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into camera function setting，

3、Move cursor to choose【**White Balance**】inthe【**Camera**】. Presss 【OPEN】key (open iris order) for confirmation, enter into W/B mode setting items.

4、Move cursor to choose【**WB Mode**】in the【**White Balance**】. Presss 【OPEN】key (open iris order) for confirmation, enter into W/B mode setting items.

The following items are available：

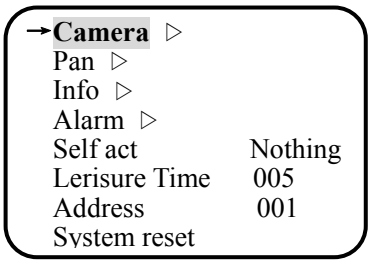
【Auto】: Auto mode；belongs to default item, it will restore the true color after envieonment detection by W/B sensor of camera.

【Maunal】: Manual mode； R Gain and B Gain can be adjusted under this item.

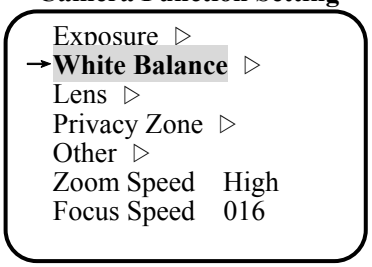
5、Use P/T up and down-ward order to choose users' needed W/B mode up and down from 0～255 selectable.

6、Press 【OPEN】key (open iris order) for confirmation, save W/B Mode setup and exit. Press 【CLOSE】 key (close iris order), lose W/B Mode setup and exit.

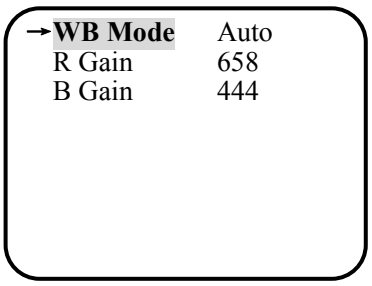
Main Menu



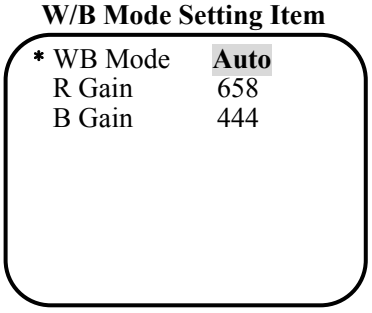
Camera Function Setting



W/B Mode



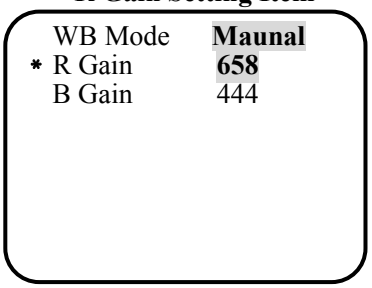
W/B Mode Setting Item



● R Gain Setting:

☞ Operating Methods As Follows：

R Gain Setting Item



1、Move cursor to choose【**R Gain**】in the【**White Balance**】. Presss 【OPEN】key (open iris order) for confirmation, enter into R Gain Setting items.

2、Use P/T up and down-ward order to change R Gain setting(640－767). the bigger the chosen fingure, the more the R gain , means hue becomes warm, camera default value is 658.

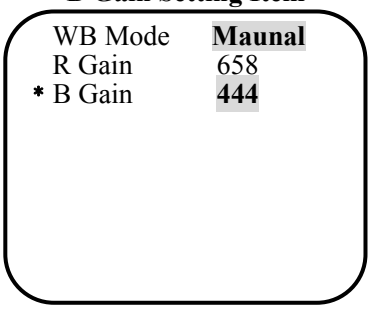
3、Presss【OPEN】key (open iris order) to save R Gain Setting and exit. Press【CLOSE】key (close iris order) lose R Gain Setting and exit.

Attention：Only when Exp Mode is "Maunal"，can this item be set

● B Gain Setting：

☞ Operating Methods As Follows：

B Gain Setting Item



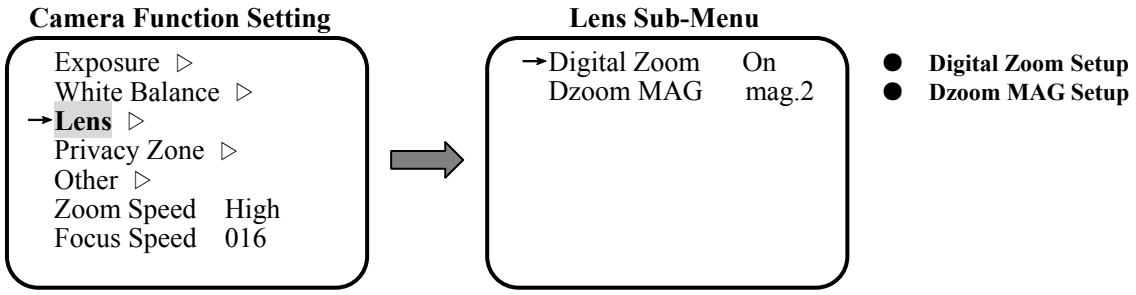
1、Move cursor to choose【**B Gain**】in the【**White Balance**】. Presss 【OPEN】key (open iris order) for confirmation, enter into B Gain Setting items.

2、Use P/T up and down-ward order to change B Gain setting(384－511). the bigger the chosen fingure, the more the B gain , means hue becomes colder, camera default value is 444.

3、Presss【OPEN】key (open iris order) to save B Gain Setting and exit. Press【CLOSE】key (close iris order) lose B Gain Setting and exit.

Attention： Only when WB Mode is "Maunal"can this item be set.

■ Lens Parameter Sub-Menu Setting



● Digital Zoom Setup（refer to P45）

It can be set（On）or（Off）

● Dzoom MAG Setup（refer to P45）

It is camera Dzoom MAG（mag.1~mag.12），only when it is “On”, can this item be effective.

● Dightal Zoom Mode Setting：

☞ Operating Methods As Follows：

1、Call preset 95 or 64 to enter into main menu.

2、 Move cursor to choose【**Camera**】, press【OPEN】（namely open iris order）for confirmation，enter into camera function setting item.

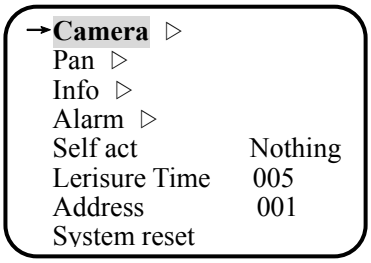
3、**Move cursor to choose【Lens】** in 【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into lens parameter setting items.

4、 Move cursor to choose【**Dightal Zoom**】in【**Lens**】, press【OPEN】（open iris order）for confirmation，enetr into Digital Zoom Mode Settting Items.

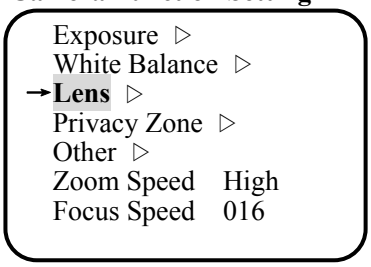
5、Use P/T up and down-ward order to choose users' needed : On or Off selectable.

6、Presss 【OPEN】key (open iris order) to save Digital Zoom Mode Setting and exit. Press【CLOSE】key (close iris order) loseDigital Zoom Mode Setting and exit

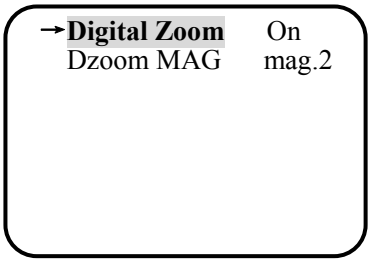
Main menu



Camera Function Setting



Lent Sub-Menu



● D Zoom MAG Setting：

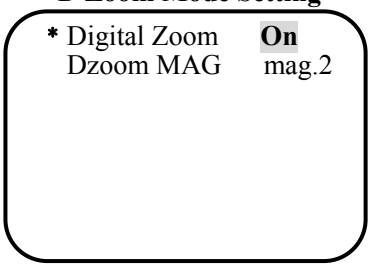
☞ Operating Methods As Follows：

1、 **Move cursor to choose【D Zoom MAG】** in 【**Lens**】,press【OPEN】（open iris order）for confirmation，enter into D Zoom MAG Setting items.

2、Use P/T up and down-ward order to change D Zoom MAG : mag.1~mag.10（1～10digital zoom） selectable；

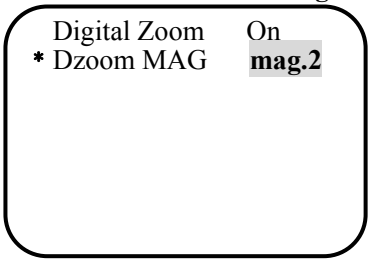
3、Presss 【OPEN】key (open iris order) to save Digital Zoom MAG Setting and exit. Press【CLOSE】key (close iris order) loseDigital Zoom MAG Setting and exit

D Zoom Mode Setting



Attention：only when "Dightal Zoom" is "On", can this item be set.

Dzoom MAG Setting



■ Privacy Zone Setting：

Camera Function Setting

Exposure ▷
White Balance ▷
Lens ▷
→**Privacy Zone** ▷
Other ▷
Zoom Speed High
Focus Speed 016

Privacy Zones Suib-Menu

→Shade Setting 003
Mask Color R 008
Mask Color B 008
Set Mask 1
Set Mask 2

- **Mask Gray Setup**
- **Mask R Gain**
- **Mask B Gain**
- **Mask 1 Setting**
- **Mask 2 Setting**

The privacy zones can protect a certain aera .The users can cover the privacy zones by this item, and it(Hitachi camera)can support 2 privacy zones at most. (The area can be set freely) And the privacy zone can be moved along with Dome structure.

● Mask Gray Setup（refer to P47－48）

Gray of privacy zones can be selectable from 000～015 by this item.

● Mask R Gain Setup（refer to P47-48）

R gain can be adjustable through this item from 000～008.

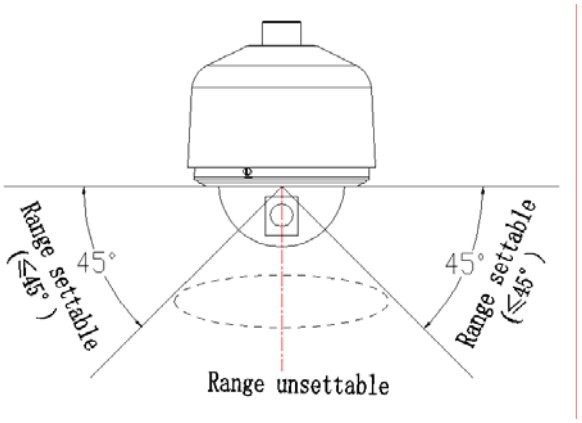
● Mask B Gain Setup（refer tp P47-48）

B gain can be adjustable through this item from 000～008.

● Mask 1/2 Setup（refer to P47－48）

Users can set Mask through these two items.

❖ **Remarks： Two privacy zones can be settable for Hitachi Series Cameras，when the dome's vertical degree is≥45°，privacy zones function can not be set， as follows：**



LG、CNB Series cameras don't accept privacy zones.

● Mask 1 Setup:

☞ Operating Methods As Follows：

1、Call preset 95 or 64 to enter into main menu.

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into camera function setting menu.

3、Move the cursor to choose 【**Privacy Zone**】in the 【**Camera**】Press 【OPEN】key (namely open the iris order) for confirmation to enter into privacy zones setting items.

4、Move the cursor to choose 【**Set Mask 1**】inthe【**Privacy Zone**】. **Press** 【OPEN】 key(namely open the iris) for confirmation, enter into privacy zones 1 setting,

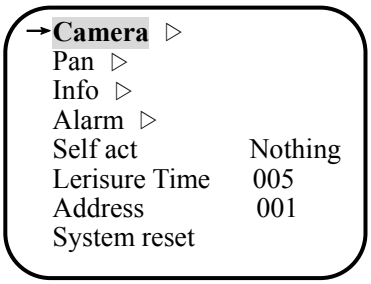
5、Aim at the object or location needed to protect through moving the dome by user，**Press** 【OPEN】 key(namely open the iris) for confirmation, enter into privacy zones setting, then a small black privacy zones will appears in the center of the monitor's screen.

6、To adjust the size of black privacy zones to the needed location according to the practical size. Press 【FAR】 key: far focus order. Enlarge privacy zones size right and left synchronically. Press 【NEAR】 key: near focus order. Minish privacy zones size right and left synchronically. Press【TELE】 order，Enlarge privacy zones size up and down synchronically. Press【WIDE】order，Minish privacy zones size up and down synchronically.

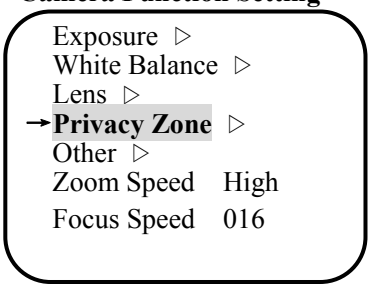
7、Press【OPEN】key (namely open the iris order), save the present privacy zones setting and exit.Press 【CLOSE】 key (namely close the iris order)， lose the present privacy zones setting and exit

8、Hitachi Series camera can support color adjustment of privacy zones, and users can adjust its color freely.

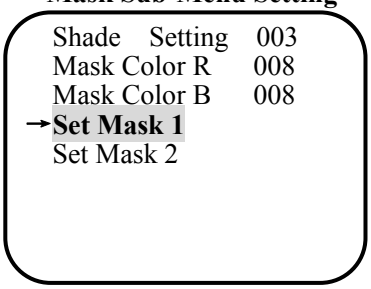
Main Menu

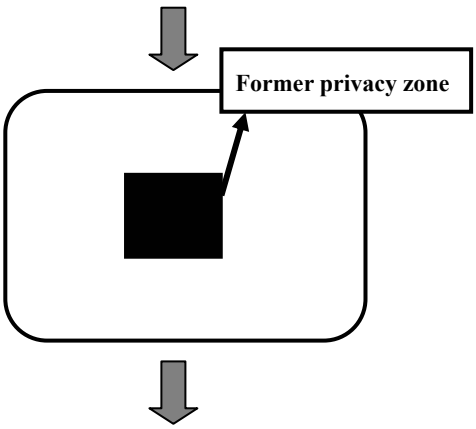


Camera Function Setting



Mask Sub-Menu Setting





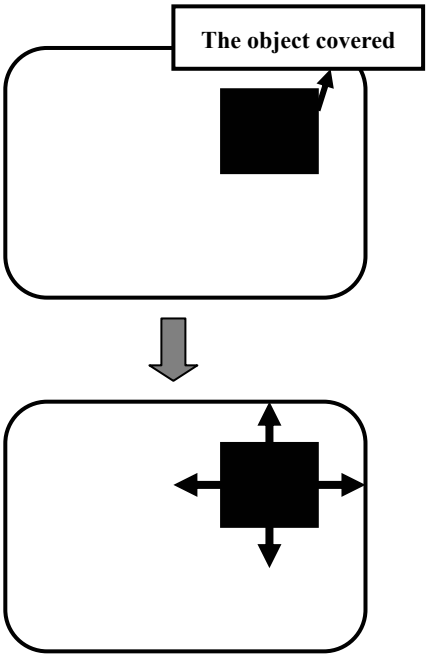
9、Move cursor to choose【**Shade Setting**】 in 【**Privacy Zone**】,press【OPEN】(open iris order, enter into privacy zones gray choice; Use P/T up and down-ward order to change current privacy zone gray value :(000～008)， the bigger the figure, the strong the gray; the smaller the figure, the weak the gray.

10、Move cursor to choose【**Mask Color R**】 in 【**Privacy Zone**】,press【OPEN】(open iris order) enter into Mask R Gain Choice; Use P/T up and down-ward order to change current Mask R Gain value :(000～015)，the bigger the figure, the more the red; hue becomes warm.

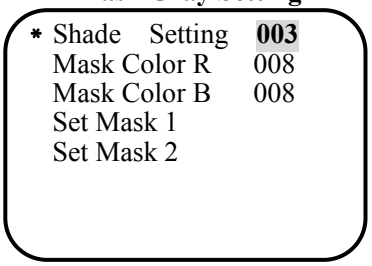
11、Move cursor to choose【**Mask Color B**】 in 【**Privacy Zone**】, press【OPEN】(open iris order) enter into Mask B Gain Choice; Use P/T up and down-ward order to change current Mask B Gain value :(000～015)，the bigger the figure, the more the Blue; hue becomes cold.

❖ **Explaination：1、All the privacy zones setting methods are the same. Concerning the details, please refer to the Set Mask 1**

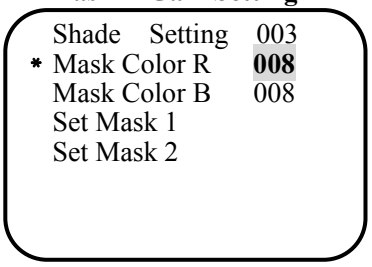
2、【Shade Setting】、【Mask Color R】、【Mask Color B, these three functios above are effective to both Mask 1 and Mask 2.



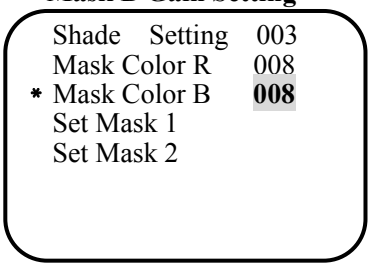
Mask Gray Setting



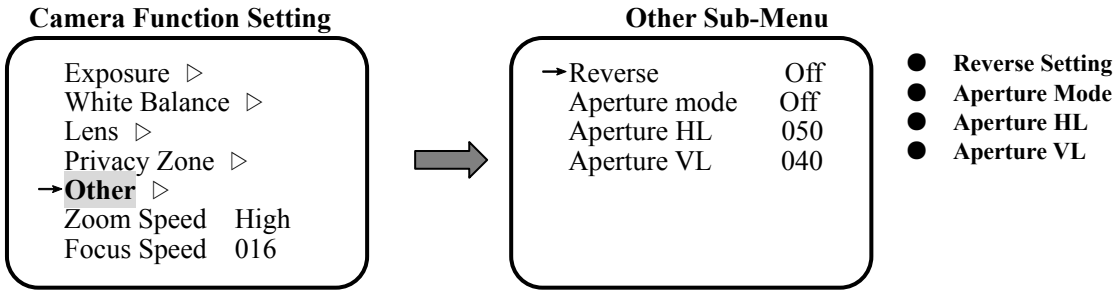
Mask R Gain Setting



Mask B Gain Setting



■ Other Sub-Menu Setting:



● Reverse Setting（refer to P50）

When it is on, the horizontal picture will be display reversedly.

● Aperture Mode Setting（refer to P51）

Aperture Mode（On）or（Off）selectable !

● Aperture HL Setting（refer to P51）

Used to adjust aperture vertically of camera image by this item, the bigger the finger, the clearer the edge of image; the smaller the finger, the softer the image.

● Aperture VL Setting（refer to P51）

Used to adjust aperture horizontally of camera image by this item, the bigger the finger, the clearer the edge of image; the smaller the finger, the softer the image.

● Reverse Setting：

☞ Operating Methods As Follows：

1、Call preset 95 or 64 to enter into main menu.

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into camera function setting menu.

3、Move cursor to choose【**Other**】in【**Camera**】,press【OPEN】（open iris order）for confirmation， enter into other sub-menu setting items.

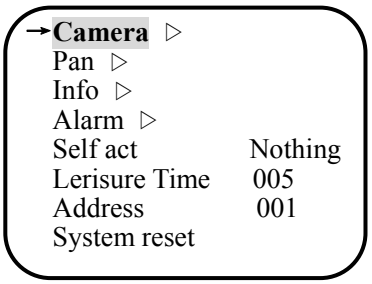
4、Move curdor to choose【**Reverse**】 in 【**Other**】, press【OPEN】（open iris order）for confirmation，enter into reverse setting.

5、 Use P/T up and down-ward order to change reverse setting up and down, “On” refers to open reverse setting, at this time vertical image takes center as axis of rotation, image displayed inversely. “Off“ means normally vertical image.

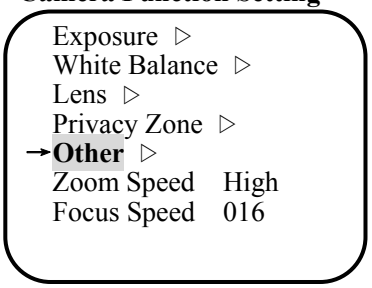
6、Press【OPEN】key (namely open the iris order), save the present setting and exit.Press 【CLOSE】 key (namely close the iris order)， lose the present setting and exit

Attentions： **when it is “ON”, camera image in vertical direction displays inversely; moreover, moving direction of P/T and moving direction of camera image are opposite when controlling dome rotation up and down.**

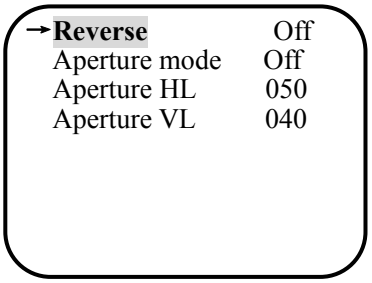
Main Menu



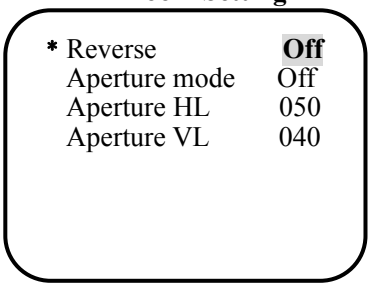
Camera Function Setting



Other Sub-Menu



D Zoom Setting



● Aperture Mode Setting:

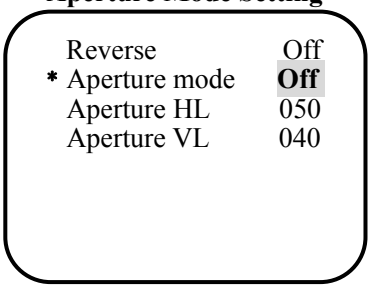
☞ Operating Methods As Follows:

1、Move cursor to choose【**Aperture mode**】in 【**Other**】, press【OPEN】(namely open the iris order) for confirmation, enter into aperture setting items.

2、 Use P/T up and down-ward order to change Aperture Mode setting up and down,"On" or "Off" selectable;

3、Press【OPEN】key (namely open the iris order), save the present setting and exit.Press 【CLOSE】 key (namely close the iris order), lose the present setting and exit

Aperture Mode Setting



● Aperture HL Setting:

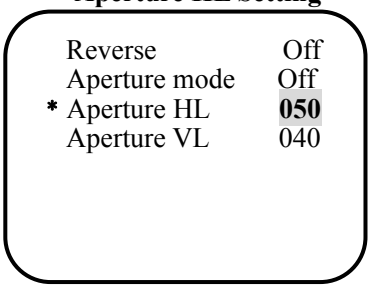
☞ Operating Methods As Follows:

1、 Move cursor to choose【**Aperture HL**】in【**Other**】, 【**Other**】,press【OPEN】(namely open iris order) for confirmation, enter into horizontal aperture setting items.

2、 Use P/T up and down-ward order to change Aperture HL setting up and down, Aperture HL of camera image from 000～063 adjustable;

3、Press【OPEN】key (namely open the iris order), save the present setting and exit.Press 【CLOSE】 key (namely close the iris order), lose the present setting and exit

Aperture HL Setting



● Aperture VL Setting:

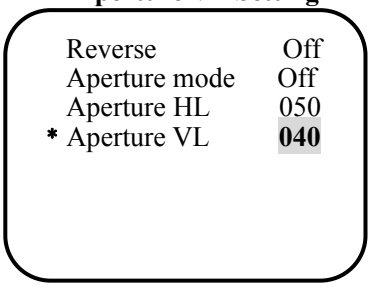
☞ Operating Methods As Follows:

1、Move cursor to choose【**Aperture VL**】 i【**Other**】,press【OPEN】(namely open iris order) for confirmation, enter into vertical aperture setting items.

2、Use P/T up and down-ward order to change Aperture VL setting up and down, Aperture VL of camera image from 000～063 adjustable;

3、Press【OPEN】key (namely open the iris order), save the present setting and exit.Press 【CLOSE】 key (namely close the iris order), lose the present setting and exit

Aperture VL Setting



■ Zoom Speed Setting:

☞ Operating Methods As Follows:

1、 Call preset 95 or 64 to enter into main menu.

2、Move cursor to choose【**Camera**】, press【OPEN】(open iris order) for confirmation, enter into camera function setting menu.

3、Move cursor to choose【**Zoom Speed**】 in 【**Camera**】press 【OPEN】(open iris order) for confirmation, enter into Zoom Speed Setting,

It can be set as follows:

【Super H】: super speed

【High】: high speed

【normal】: general speed

4、Use P/T up and down-ward order to change Zoom Speed Mode setting up and down;

5、Press【OPEN】key (namely open the iris order), save the present Zoom Speed setting and exit.Press 【CLOSE】 key (namely close the iris order), lose the present Zoom Speed setting and exit.

Camera Function Setting

```
Exposure ▷
White Balance ▷
Lens ▷
Privacy Zone ▷
Other ▷
→Zoom Speed   High
Focus Speed   016
```

Zoom Speed Setting

```
Exposure ▷
White Balance ▷
Lens ▷
Privacy Zone ▷
Other ▷
* Zoom Speed   High
Focus Speed   016
```

■ Focus Speed Setting:

☞ Operating Methods As Follows:

1、Call preset 95 or 64 to enter into main menu

2、Move cursor to choose【**Camera**】, press【OPEN】(open iris order) for confirmation, enter into camera function setting menu.

3、 Move cursor to choose【**Focus Speed**】 in【**Camera**】,press 【OPEN】(open iris order) for confirmation, enter into Focus Speed setting items,

4、Use P/T up and down-ward order to change Focus Speed setting up and down; 001～031 selectable, 001 is the slowest focus, 031 is the highest focus.

5、Press【OPEN】key (namely open the iris order), save the present Focus Speed setting and exit.Press 【CLOSE】 key (namely close the iris order), lose the present Focus Speed setting and exit

Camera Function Setting

```
Exposure ▷
White Balance ▷
Lens ▷
Privacy Zone ▷
Other ▷
Zoom Speed   High
→Focus Speed   016
```

Focus Speed Setting

```
Exposure ▷
White Balance ▷
Lens ▷
Privacy Zone ▷
Other ▷
Zoom Speed   High
* Focus Speed   016
```

LG/CNB Series Camera Function Setting

☞ Operating Methods As Follows：

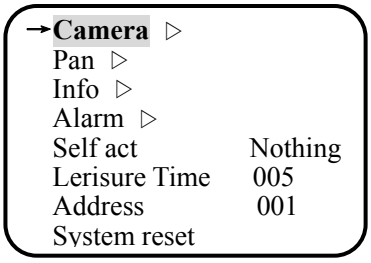
1、Call preset 95 or 64 to enter into main menu

2、Move cursor to choose【**Camera**】, press【OPEN】（open iris order）for confirmation，enter into inner function menu of LG or CNBseries cameras.

3、Move cursor to choose functional items,press【OPEN】（open iris order）for confirmation， enter into the current chosen item,and press【OPEN】（open iris order）again, enter into mode or value switching item.

4、 after setting up，move cursor to choose【RETURN】(end) menu item， press【OPEN】（open iris order）return upper-grade menu， untill exit camera function setting items.

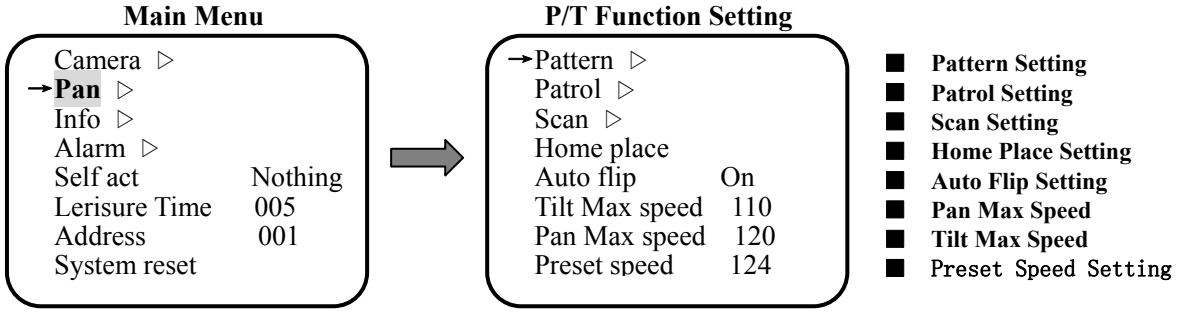
Main Menu



LG/CNB Camera Function Setting

LG/CNBseries camera built-in function setting menu.（Omit）

B Pan Function Setting:



P/T Speed will change along with lens' zoom in propotion under the propotional "Changing P/T Speed Mode" item. P/T Speed will decrease according to the increasing of lens' zoom. Therefore, the pictures will keep clear on the monitor during the fast moving of the P/T.

■ Pattern Setting (refer to P55-56)

This item can reach domes' successive record within one minute patrol at least. It includes : P/T Control; Camera normal control(Focus, len zoom); as well as Preset Function Operation. When carrying out this item, the dome will be running according to the recorded patrol repeatedly. And three patrols are available.

■ Patrol Setting (refer to P57-59)

Through this item, we can arrange the recorded preset into different patrols according to the required orders. And the preset point speed and parking time can be set separately. When running patrol, various preset points will be called ordely one by one. Three patrols are available and each can contain 32 presets.

■ Scan Setting (refer to P60-64)

It support many scan modes, such as auto scan, frame scan and so on. The operaters can set "scan speed", "Sacn TP", "Scan Limit L/R"(can be set in the same location) After receiving the scan orders, the camera will be running according to the scan mode setup.

■ Home Place Setting(refer toP65)

When running this item, the system will keep the present position as the home place

■ Auto Flip Setting (refer to P65)

This item can reach dome's 180 rotation vertically to get a cpmplete monitoring. "On" or "Off" are selectable means "Open or Close the Auto Flip Setting"

■ Tilt Max Speed Setting(refer to P66)

It is based on human-oriented design, the users can adjust the Tilt Max Speed as their pleases according to the practical requirements

■ Pan Max Speed Setting (refer to P66)

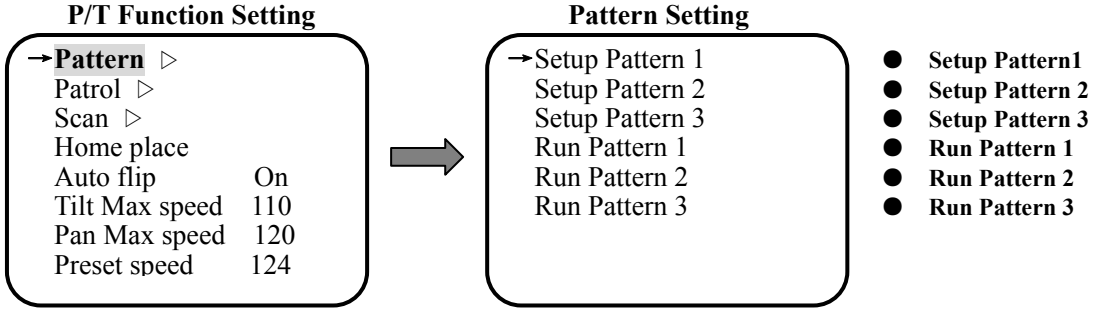
It is based on human-oriented design,the users can adjust the Pan Max Speed as their pleases according to the practical requirements

■ Call Preset Speed Setting

(refer to P67—68)

It is based on human-oriented design, the users can adjust the Preset Speed as their pleases according to the practical requirements.

■ Pattern Setting:



● Setup Pattern 1:

❖ **Remarks: All the pattern recording methods are the same, so we take "Setup Pattern 1" as example.**

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into the main menu

2、Move the cursor to choose 【**Pan**】. Press【OPEN】 key (open the iris order) for confirmation, enter into "P/T Function Setting Items"

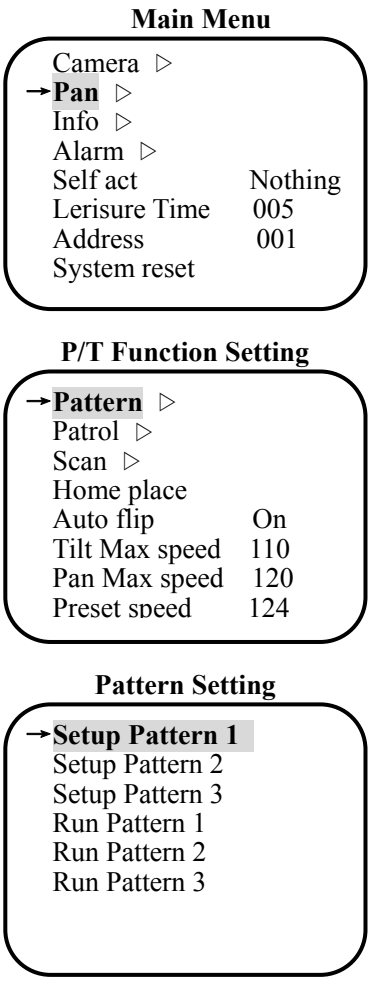
3、Move the cursor to choose 【**Pattern**】in the【**Pan**】. Press 【OPEN】 key (open the iris order) for confirmation, enter into "Pattern Setting Items"

4、Move the cursor to choose 【**Setup Pattern 1**】in the 【**Pattern**】. Press【OPEN】 key (open the iris order) for confirmation, enter into "Setup Pattern 1 Setting Items" At this time, the dome will exit the main menu and enter into Pattern 1 Recording Condition and the words "Save Pattern" will appears on the screen's left upwards.

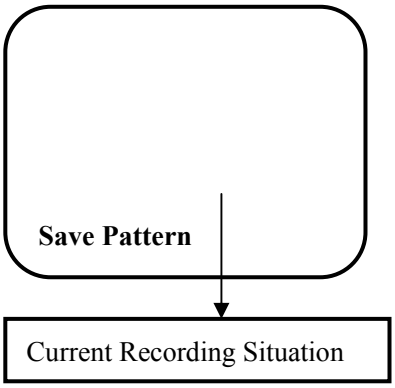
5、Meanwhile, to operate the dome according to the users' former recorded track, The running track will be saved during this time.

6、"Call preset 95" can stop the present pattern record, and the words "Save Pattern" will disappear.

❖ **Remarks: All the pattern recording methods are the same, if you want to rerecord a new pattern, you can juat repeate the above steps from 1-6.**



Attention: Pattern's record will start from the time when the dome exits the main menu to the time when "Save Pattern" disappears. And the tracks will be saved during this time.



● Run Pattern 1:

❖ **Remarks: All the pattern running methods are the same, so we take "Run Pattern 1" as Example.**

☞ Operating method as follows:

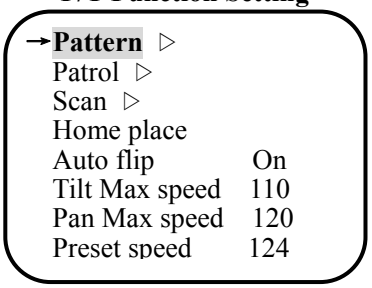
1、Move the cursor to choose 【**Pan**】. Press【OPEN】 key (open the iris order) for confirmation, enter into "P/T Function Setting Items"

2、Move the cursor to choose 【**Run Pattern 1**】in the 【**Pattern**】. Press【OPEN】 key (open the iris order) for confirmation, enter into "Run Pattern 1 " At this time, the dome will exit the main menu and enter into Pattern 1 Running Condition and the words "Run Pattern" will appears on the screen's left upwards.

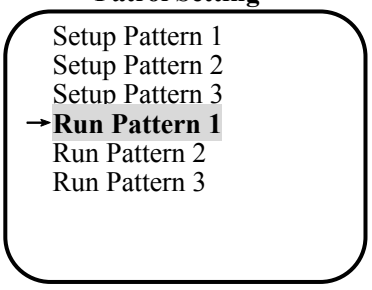
3、After exiting the main menu, the dome will be running repeatedly according to former saved pattern 1 autoly.

4、Pattern1 will be stopped to carry out a new order while receiving any effective order, and the words "Run Pattern" will disappear.

P/T Function Setting

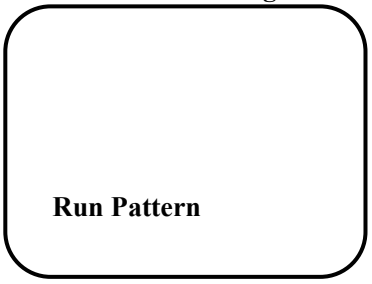


Patrol Setting



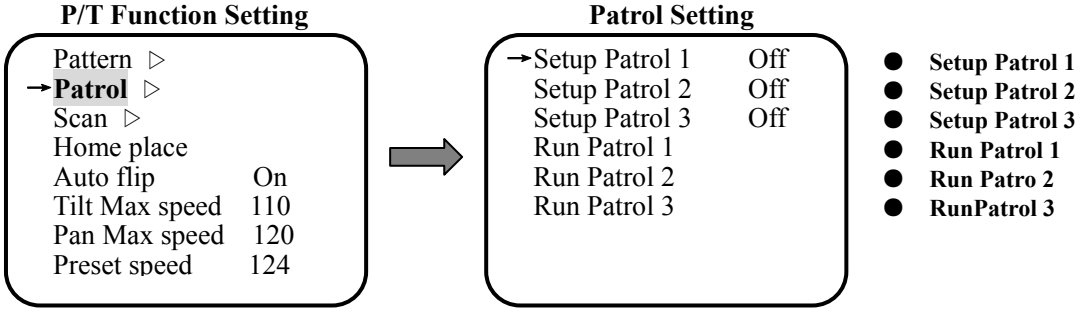
❖ **Remarks: All the pattern running methods are the same, if you want to rerun a new pattern, you can just repeate the above steps from 1-6.**

Track Running



Attention: During the running, the words "Run Pattern" will appear on the left-up wards screen. When running certain pattern, be sure that you have saved the corresponding track, or you will receive no response.

■ Patrol Setting:



● Setup Patrol 1:

❖ **Remarks:** **All the Setup Patrol routes' methods are the same. If you want to rearrange a new patrol route, you can just repeat the steps as below to get it. Now we take "Setup Patrol 1" as example.**

☞ Operating method as follows:

1、 Call preset 95 or 64 to enter into the mani menu.

2、 Move the cursor to choose【**Pan**】, press【OPEN】key (namely open the iris order) for confirmation, and then enter into P/T Function Setting Item.

3、 Move the cursor to choose【**Patrol**】 in the【**Pan**】.**Press** 【OPEN】key (open iris order) for confirmation, enter into "Setup Patrol Menu".

4、 Move the cursor to choose【**Setup Patrol 1**】in the 【**Patrol**】.Press【OPEN】 key (open the iris order) for confirmation and enter into.

5、Use P/T up and down-ward order to set "On", it stands for "Open Setup Patrol 1 "Press【OPEN】key (open iris order) for confirmation and enter into(as shown FIG 5)

❖ **Remarks**: **When it is set "Off", it stands for"Close Setup Patrol 1", so the following steps will not be carried out.**

Main Menu

Camera ▷
→**Pan** ▷
Info ▷
Alarm ▷
Self act Nothing
Lerisure Time 005
Address 001
System reset

P/T Function Setting

Pattern ▷
→**Patrol** ▷
Scan ▷
Home place
Auto flip On
Tilt Max speed 110
Pan Max speed 120
Preset speed 124

Patrol Setting

* Setup Patrol 1 **On**
Setup Patrol 2 Off
Setup Patrol 3 Off
Run Patrol 1
Run Patrol 2
Run Patrol 3

6、Move cursor up and down to choose the current number as the No. required,press 【OPEN】 key (open the iris order) to confirm entering into the former NO. To move it right and left to choose parameter needed to change; Use P/T up and down-ward order to change its parameter, after that, press 【OPEN】key(open the iris order) to confirm saving the setting.

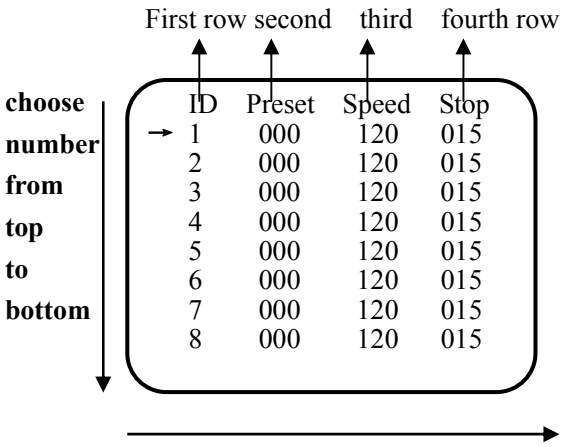
7、Turn Page No. up and down to choose other serial number and repeat step 6 to choose another No. and change its parameter. (as shown FIG 8)

8、After programming all the information, press 【CLOSE】 key (close the iris order), all the settings this time will be saved and then exit the current "Patrol Setting Status "

Attention：

a、Each Patrol can contain 32 presets. After programming, pres【OPEN】 key (open the iris order) directly, all the settings won't be saved, that is to say the users must obey step8 strictly, or all the settings won't be saved by the system.

b、In Patrol, the system will stop to return the present patrol route if some preset No. is 000.


First row second third fourth row
choose number from top to bottom
ID Preset Speed Stop
→ 1 000 120 015
2 000 120 015
3 000 120 015
4 000 120 015
5 000 120 015
6 000 120 015
7 000 120 015
8 000 120 015
change value from left to right

（ FIG5）

❖ **Remarks：** **It contains 4 lines. The first line【ID】: number1-32.The second line【Preset】: preset No.(No1-56 available)，The third line【Speed】: preset speed（50-128rank selectable)，The fourth line【Stop】: preset parking time（3—240S selectable）.**

	ID	Preset	Speed	Stop
*	1	**000**	**120**	**015**
	2	000	120	015
	3	000	120	015
	4	000	120	015
	5	000	120	015
	6	000	120	015
	7	000	120	015
	8	000	120	015

（FIG6）

	ID	Preset	Speed	Stop
→	25	060	128	010
	26	000	050	030
	27	000	120	240
	28	000	100	015
	29	000	120	015
	30	030	110	015
	31	000	120	015
	32	000	120	015

(FIG8)

● Run Patrol 1:

❖ **Remarks：** **All the Patrol running methods are the same, here we take "Run Patrol 1" as an example to make illustration.**

☞ Operating method as follows:

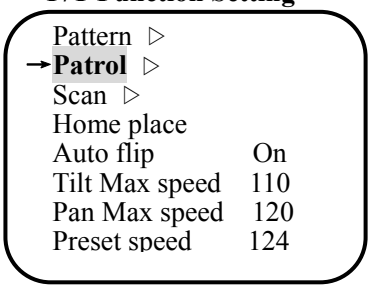
1、Move the cursor to choose【**Patrol**】in the【**Pan**】.**Press**【OPEN】key (open iris order) for confirmation, enter into "Setup Patrol Menu".

2、Move the cursor to choose 【**Run Patrol 1**】in the 【**Patrol**】. Press【OPEN】key (open the irisorder) to confirm starting running Patrol 1,at the same time , the dome will exit the main menu and run Patrol 1 , the corresponding preset No. "**Go to preset * * ***" will display on the left-upward of the monitor screen.

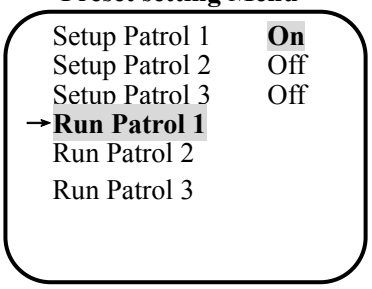
3、In running patrols, the dome will stop the present scan upon receipt of any effective order.

❖ **Remarks：** **All the Patrol running methodsare the same, if you want to rerun a new patrol, just repeat the above steps.**

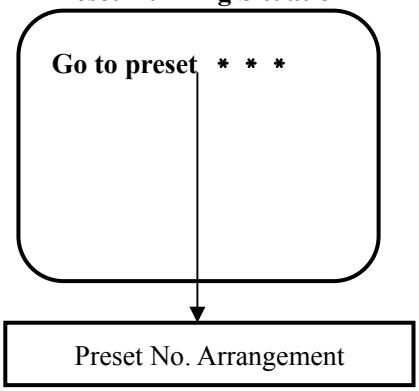
P/T Function Setting



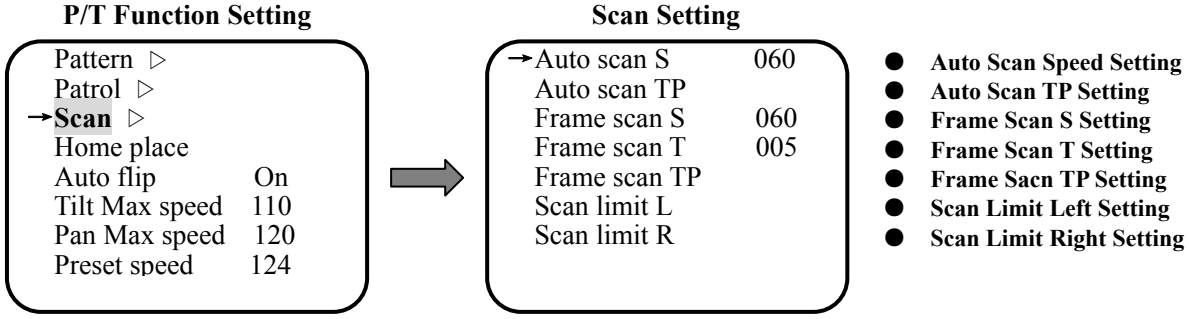
Preset setting Menu



Preset Running Situation



■ Scan Setting ：



It support many scan modes, such as auto scan, frame scan and so on. The operaters can set “scan speed”, “Sacn TP”, “Scan Limit L/R”(can be set in the same location) After receiving the scan orders, the camera will be running according to the scan mode setup.

❖ Instruction：

Auto Scan Mode: On the basis of “Fixed Auto Scan TP”, the camera will carry out scan back and forth horizontally between “Scan Limit L” and “Scan Limit R ”with the steady speed and the same zooming times. If left and right are set the same position, 360deg rotation scan will be in progress.

Frame Scan Mode： On the basis of “Fixed Auto Scan TP”, the camera will carry out scan back and forth horizontally between “Scan Limit L” and “Scan Limit R ”with the steady speed and the same zooming times, average scan T,horizontal interval scan. If left and right are set the same position, 360deg interval rotation scan will be in progress.

● Auto Scan Speed Setting（refer to P61）

It is used to adjust horizontal scan speed during auto scan, and 10-80 gread available

● Auto Scan TP Setting（refer toP62）

It is used to set auto scan TP position during the auto scan.

● Frame Scan Speed Setting（refer to P62）

It is used to adjust horizontal scan speed during frame scan.And 10-80 grade available

● Frame Scan T Setting（refer to P63）

It is used to adjust frame scan T , 3-120s available.

● Frame Scan TP Setting（refer to P63）

It is used to set frame scan TP position during the frame scan.

● Scan Limit L Setting（refer to P64）

It is effective to both Auto scan and Frame scan.

● Scan Limit R Setting（refer to P64）

It is effective to both Auto scan and Frame scan.

● Auto scan S Setting:

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into main menu.

2、 Move cursor to choose 【**Scan**】 in the【**Pan**】.Press【OPEN】key (open iris order) to confirm entering into "Scan Function Setting Menu."

3、Move cursor to choose 【**Auto scan S**】in the【**Scan**】.Press【OPEN】key (open iris order) to confirm entering into "Auto Scan Speed Setting Menu."

4、Use P/T up and down-ward order to change "Auto Scan S"; 10－80 grade available.

5、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit;

Main Menu

```
  Camera ▷
→Pan ▷
  Info ▷
  Alarm ▷
  Self act          Nothing
  Lerisure Time     005
  Address           001
  System reset
```

P/T Function Setting

```
  Pattern ▷
  Patrol ▷
→Scan ▷
  Home place
  Auto flip         On
  Tilt Max speed    110
  Pan Max speed     120
  Preset speed      124
```

Scan Function Setting

```
→Auto scan S        060
  Auto scan TP
  Frame scan S      060
  Frame scan T      005
  Frame scan TP
  Scan limit L
  Scan limit R
```

Auto Scan S Setting

```
* Auto scan S       060
  Auto scan TP
  Frame scan S      060
  Frame scan T      005
  Frame scan TP
  Scan limit L
  Scan limit R
```

● Auto scan TP Setting:

☞ Operating method as follows:

1、Move cursor to choose 【**Auto scan TP**】 in the【**Scan**】.Press 【OPEN】 key (open iris order) for confirmation,enter into TP Setting；

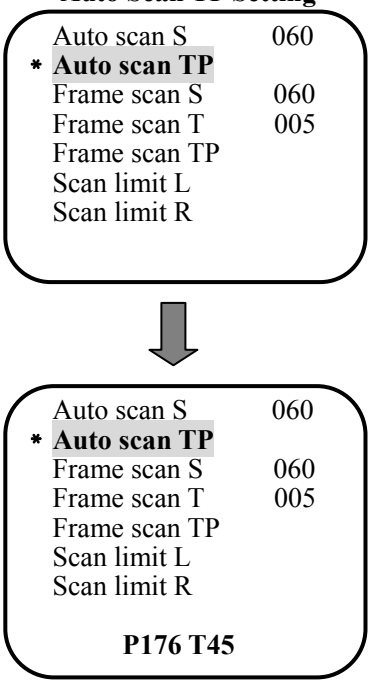
2、By running the dome, TP position will appearson the screen, and after the adjusting the TP position required, press【OPEN】key （open iris order） for confirmation,the system will save the present TP position as the basic position while auto scan

3、 Press【CLOSE】key（close iris order），there will be no auto scan TP setting and return

Attention：a、Auto scan TP can be set during0° — 90° freely；

b、If the setting is not saved, wewill not carry out auto scan function.

Auto Scan TP Setting



● Frame scan S Setting:

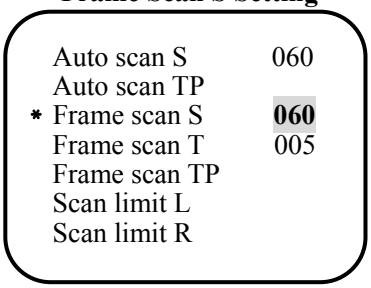
☞ Operating method as follows:

1、Move cursor to choose 【**Frame scan S**】 in the【**Scan**】. Press【OPEN】key (open iris order) for confirmation，enter into “Frame scan S setting ”.

2、Use P/T up and down-ward order to change “Frame Scan S” (10-80grade available)

3、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit;

Frame Scan S Setting



● Frame scan T Setting:

☞ Operating method as follows:

1、 Move cursor to choose【**Frame scan T**】in the【**Scan**】. Press 【OPEN】key (open iris order) for confirmation，enter into "Frame scan T Setting Items."

2、 Use P/T up and down-ward order to change "Frame Scan T" (3-120s available)

3、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit;

Frame Scan T Setting

	Auto scan S	060
	Auto scan TP	
	Frame scan S	060
*	Frame scan T	**005**
	Frame scan TP	
	Scan limit L	
	Scan limit R	

● Frame scan TP Setting:

☞ Operating method as follows:

1、 Move cursor to choose【**Frame scan TP**】in the【**Scan**】. Press【OPEN】key (open iris order) for confirmation, enter into "Frame Scan TP Setting items"

2、 By running the dome, TP position will appears on the screen, and after the adjusting the TP position required, press【OPEN】key（open iris order）for confirmation,the system will save the present TP position as the basic position while frame scan

3、Press【CLOSE】key（close iris order），there will be no frame scan TP setting and return

Frame Scan TP Setting

	Auto scan S	060
	Auto scan TP	
	Frame scan S	060
	Frame scan T	005
*	**Frame scan TP**	
	Scan limit L	
	Scan limit R	

	Auto scan S	060
	Auto scan TP	
	Frame scan S	060
	Frame scan T	005
*	**Frame scan TP**	
	Scan limit L	
	Scan limit R	

P176 T90

Attention： **a、Frame Scan TP Setting can be set ranging° 0—90° freely;**

b、If the setting is not saved, wewill not carry out frame scan function.

● Scan limit L Setting:

☞ Operating method as follows:

1、Move cursor to choose【**Scan limit L**】in the【**Scan**】. Press【OPEN】key (open iris order) for confirmation, enter nto "Scan Limit L Setting item";

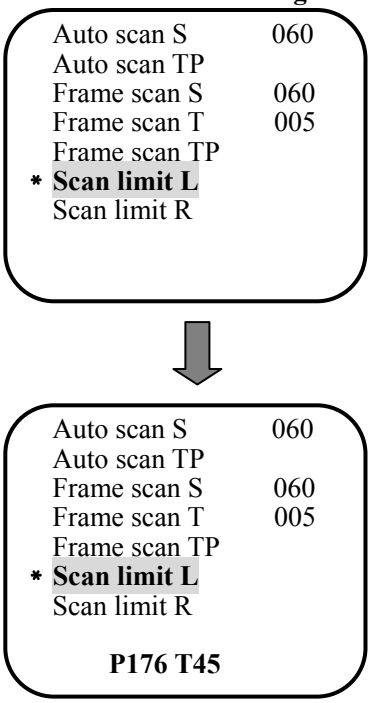
2、By running the dome, TP position will appears on the screen, and after the adjusting the Scan Limit L required, press【OPEN】key（open iris order）for confirmation,the system will save the present horizontal position as Limit L position while scan

3、Press【CLOSE】key（close iris order），there will be no Scan Limit L setting and return

Attention： **a、Scan Limit L can be set around 360° freely；**

b、It is effective to both Auto Scan Limit L and Frame Scan Limit L

Scan Limit L Setting



● scan limit R Setting:

☞ Operating method as follows:

1、Move cursor to choose【**Scan limit R**】in the【**Scan**】. Press【OPEN】key (open iris order) for confirmation, enter nto "Scan Limit R Setting item";

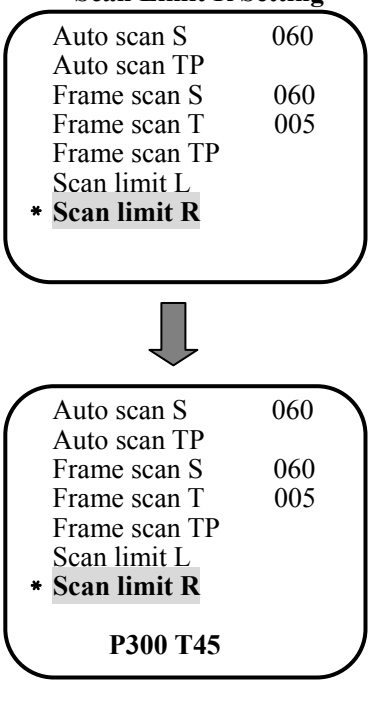
2、By running the dome, TP position will appears on the screen, and after the adjusting the Scan Limit R required, press【OPEN】key（open iris order）for confirmation,the system will save the present horizontal position as theLimit R while scan

3、Press【CLOSE】key（close iris order），there will be no Scan Limit R setting and return

Attention： **a、Scan Limit R can be set around 360° freely.**

b、It is effective to both Auto Scan Limit R and Frame Scan Limit R

Scan Limit R Setting



■ Home Place Setting:

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into the main menu

2、Move cursor to choose 【**Home place**】 in the【**Pan**】. Press 【OPEN】key (open iris order) for confirmation，the system will save the dome's present position as "Home Place".

3、Press【CLOSE】key (close the iris order), go back to the up-menu.

❖ **Remarks：**"**Home Place**" **is equal to A Special Preset in function.**

P/T Function Setting

```
Pattern ▷
Patrol ▷
Scan ▷
→Home place
Auto flip          On
Tilt Max speed    110
Pan Max speed     120
Preset speed      124
```

Home Place Setting

```
Pattern ▷
Patrol ▷
Scan ▷
* Home place
Auto flip          On
Tilt Max speed    110
Pan Max speed     120
Preset speed      124
```

■ Auto Flip Setting:

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into the main menu.

2、Move cursor to choose 【**Auto flip**】 in the【**Pan**】. Press 【OPEN】key (open iris order) for confirmation，enter into "Auto Flip Function Setting"

3、Use P/T up and down-ward order to change。Choose "On" means "Open Auto Flip Function", can reach 180deg rotation vertically. Choose "Off" means "Close Auto Flip Function", can't reach 180deg rotation vertically.

4、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit;

P/T Function Setting Item

```
Pattern ▷
Patrol ▷
Scan ▷
Home place
→Auto flip         On
Tilt Max speed    110
Pan Max speed     120
Preset speed      124
```

Auto Flip Function Setting

```
Pattern ▷
Patrol ▷
Scan ▷
Home place
* Auto flip        On
Tilt Max speed    110
Pan Max speed     120
Preset speed      124
```

■ Tilt Max Speed Setting:

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into the main menu.

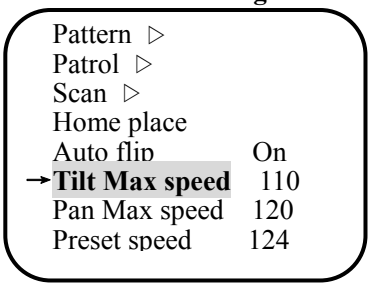
2、Move cursor to choose 【**Tilt Max speed**】in the【**Pan**】. Press【OPEN】key (open iris order) for confirmation，enter into "Tilt Max Speed Setting"

3、Use P/T up and down-ward order to change"Tilt Max Speed" (50-128grade available)

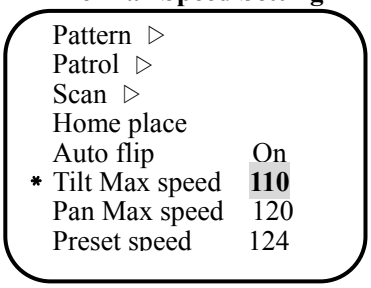
4、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit;

❖ **The most suitable "Tilt Max Speed " is 110**

P/T Function Setting Menu



Tile Max Speed Setting



■ Pan Max Speed Setting:

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into the main menu.

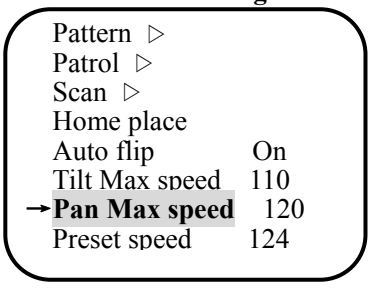
2、Move cursor to choose 【**Pan Max speed**】in the【**Pan**】. Press【OPEN】key (open iris order) for confirmation，enter into "Pan Max Speed Setting"

3、Use P/T up and down-ward order to change"Tilt Max Speed" (50-128grade available)

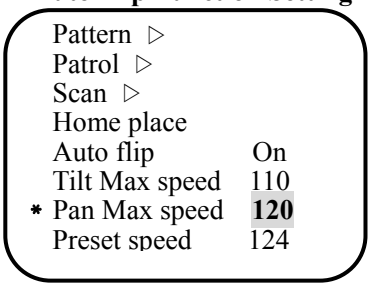
4、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit;

❖ **The most suitable "Pan Max Speed " is 120**

P/T Function Setting Menu



Auto Flip Function Setting



■ Preset Speed Setting：

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into the main menu.

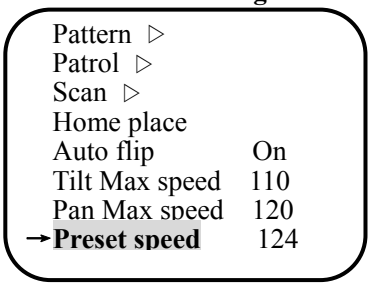
2、Move cursor to choose 【**Preset speed**】 in the【**Pan**】. Press【OPEN】key (open iris order) for confirmation，enter into "Preset Speed Setting"

3、Use P/T up and down-ward order to change"Preset Speed" (50-128grade available)

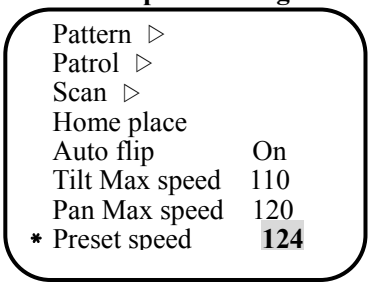
4、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit;

❖ **The most suitable "Preset Speed " is 124**

P/T Function Setting Menu



Preset Speed Setting Item

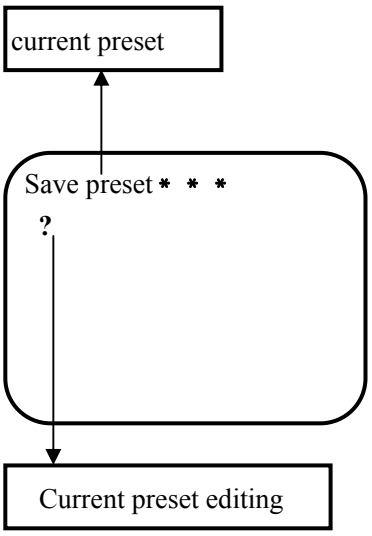


● Preset Function Additional Instruction：

The Preset Function is used to save these parameters (P/T hosizontal angle,vertical angle, lens' zoom under the present situation), ensuring a fast call of these parameters as requested, to make the camera adjusted to the needed position swiftly. It supports presets 128 from No.1 to No.128**(LG/CNB camera series support presets 56)**, in which No.1-16 can be set as character heading.

☞ Operating method as follows:

1、When we use keyboard to save No.1-16preset, The words **"Save Preset＊＊＊"** will display on the left-upward of the screen**.** Meanwhile, under the "**Save Preset＊＊＊**" will be Preset Tilte Editting Area, then the users can choose to edit or not.， as rightside fig：



2、If you want to edit the current preset tilte. Just use P/T right and left-order to adjust the symbol"?" to the required position. Then, use P/T up and down-order to adjust the needed character back and forth. The symbol "?" stands for "blank", skip the positions that don't need to edi and the characters need to cancel can be replaced by "blank". After that, press【OPEN】key (open the iris order), and save the current preset tilte settings.

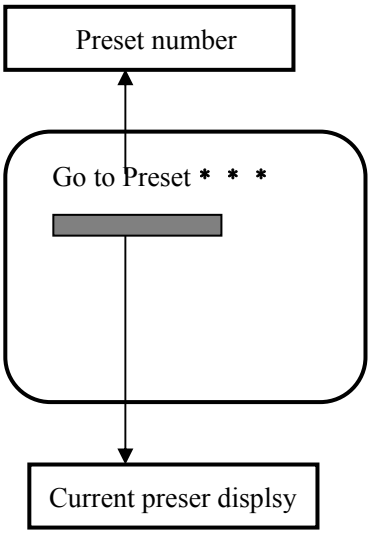
❖ **The following characters can be available："A－Z " 26 capitals，"a-z " 26 small letters as well as "0－9 " 10 numbers。**

（Attention： Only when No.1-16preset is set, can the current preset tilte editing column display）

3、If there is no need to edit, press【CLOSE】key(close the iris order)

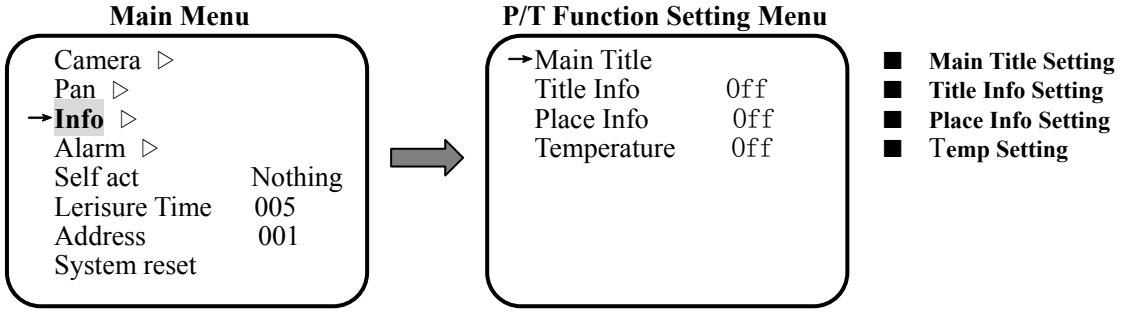
4、 When calling presets by keyboard,The words **“Go to Prese ＊＊＊”** will displayon the left-upward of the screen**.**If it is saved, under the words **“Go toPreset＊＊＊”** will “current preset editing tilte “display, as follows

5、If “the current preset tilte called” is not edited, no characters will display under the words“**Go to Preset**” (The column is blank)



（Atteotion： Only when No.1-16preset is set, can “the current preset tilte editing column” display）

C Info Setting:



■ Main Title Setting:（refer to P70）

It supports 16-character tilte display, and the main tiltes displays on the left-upward of the screen.

■ Title Info Setting（refer to P70）

It decides whether the main tilte will display on the left-upwards or not.

■ Place Info Setting（refer to P71）

Take the “after self-inspection” as basis, horizontally unlimited rotation 0-360deg, vertically 0-90deg, 180deg auto flip. To decide whether the settings will display or not by the “Place Info Setting” in the “System Info”

.

■ Temperature Info Setting（refer to P71）

We can use “built-in temperature sensor” to test operating temperature inside the dome. And the temperature display can be selectable.

■ Main Title Setting:

☞ Operating method as follows:

1、Call preset 95 or 64 to enter into the main menu

2、Move cursor to choose 【**Main Title**】 in the【**Info**】. Press 【OPEN】key (open iris order) for confirmation , enter into "Main Tilte Menu". Here the symbol "?" (16 characters editing area) will display on the left-dowmward of the screen.

3、Use "P/T right and left-order" to adjust the cursor to the required position. Then, use "P/T up and down-order" to adjust the needed character back and forth. The symbol "?" stands for "blank", skip the positions that don't need to edit and the characters need to cancel can be replaced by "blank.

❖ **The following characters can be available:"A－Z " 26 capitals, "a-z " 26 small letters as well as "0－9 " 10 numbers。**

4、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit;

Main Menu

```
  Camera ▷
  Pan ▷
→Info ▷
  Alarm ▷
  Self act          Nothing
  Lerisure Time     005
  Address           001
  System reset
```

System Info Menu Setting

```
→Main Title
  Title Info        Off
  Place Info        Off
  Temperature       Off
```

Main Title Setting

```
* Main Title
  Title Info        Off
  Place Info        Off
  Temperature       Off

  ?
```

■ Title Info Setting:

☞ Operating method as follows:

1、Move cursor to choose 【**Title Info**】 in the【**Info**】. Press 【OPEN】key (open iris order) for confirmation , enter into "Tilte Info Setting Items"

2、Use P/T up and down-ward order to choose settings back and forth. Choose "Display" means "Open Tilte Info and display on the left-upwards of the screen ". Choose "Off" means "Cloose Tilte Info and display on the left-upwards of the screen"

3、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit;

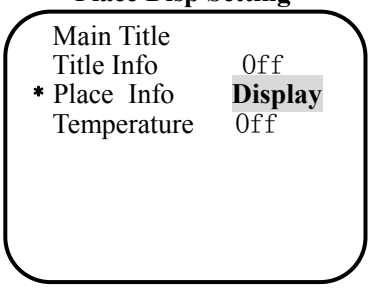
Title Info Disp Setting

```
  Main Title
* Title Info        Display
  Place Info        Off
  Temperature       Off
```

■ Place Info Setting:

☞ Operating method as follows:

Place Disp Setting



1、Move cursor to choose 【**Place Info**】 in the【**Info**】. Press 【OPEN】key (open iris order) for confirmation , enter into "Place Info Setting Items"

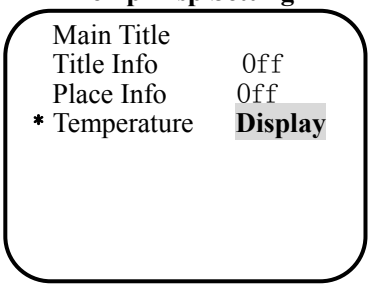
2、Use P/T up and down-ward order to choose settings back and forth. Choose "Display" means "Open Tilte Info and display on the right-downwards of the screen ". Choose "Off" means "Cloose Tilte Info and display on the right-downwards of the screen"

3、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit.

■ Temperature Display Setting:

☞ Operating method as follows:

Temp Disp Setting

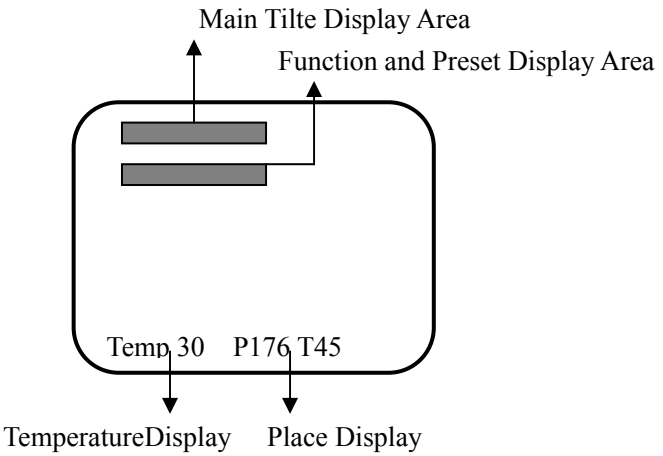


1、Move cursor to choose【**Temperature**】in the【**Info**】. Press 【OPEN】key (open iris order) for confirmation , enter into "Teperature Setting Items"

2、Use P/T up and down-ward order to choose settings back and forth. Choose "Display" means "Open Teperature and display on the right-downwards of the screen ". Choose "Off" means "Cloose Teperature and display on the right-downwards of the screen"

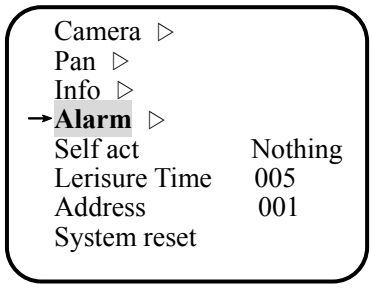
3、Press【OPEN】key (open iris order) to confirm saving the setting and exit; Press【CLOSE】key (close iris order) to confirm losing the setting and exit.

● Dome's Various Display Areas On The Screen

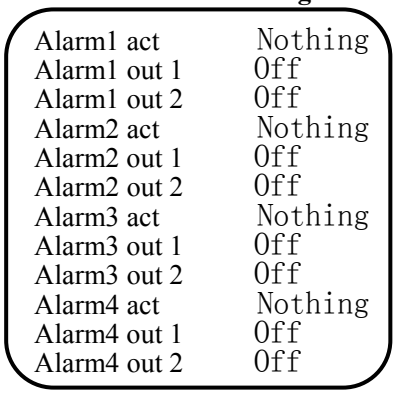


D Alarm Setting:

Main Menu



P/T Function Setting



- **Alarm1 act Setting**
- **Alarm1 out1 setting**
- **Alarm1 out2 setting**
- **Alarm2 act Setting**
- **Alarm2 out1 setting**
- **Alarm2 out2 setting**
- **Alarm3 act Setting**
- **Alarm3 out1 setting**
- **Alarm3 out2 setting**
- **Alarm4 act Setting**
- **Alarm4 out1 setting**
- **Alarm4 out2 setting**

The Dome support 4ch alarm input, 2ch alarm output, in which 1ch and 2ch belongs to "No Alarm Signal Funtion"，3ch and4ch belongs to alarm On/Off 。It alarms according to their grade(1ch is the highest grade and 4ch is the lowest) and each Alarm act and Alarm out can be set respectively. The users can choose whether we use Tri-state alarm function by the seventh DIP of SW3 DIP switchaccording to the practical situation.（Concerning the details, please refer to Appendix SW3DIP Switch Instruction）

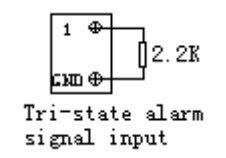
The dome will carry out the following items while alarming：

- Execute the programmed Alarm act function. For example, if the alarm No.3 is activated, alarm act function is preset 2, then the dome will monitor preset 2 immediately.
- Alarm output channel output on-off set，switch on external alarm equipment
- If the dome receives many alarming signals at the same time, it will alarm one by one according to their priority from highest to lowest ranks. For example, if the dome receives a lower alarming signal when it is carrying out the alarming signal in the high rank, the dome itself will memorize and save the lower alarming signal and execute it after the dome terminate the higher alarming signal.

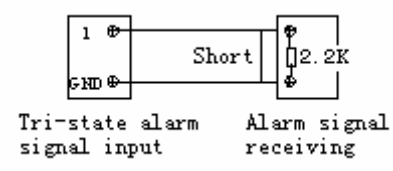
❖ Instruction：

On-off Alarm： It has two situations-Open & Short Circuit.when alarm channel and alarm public point is "open", then won't make alarm; if it is "short", then make alarm.

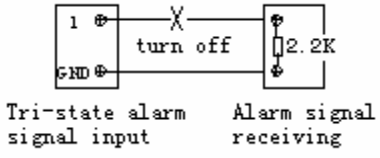
Tri-state alarm： It contains three state-high/low/middle potential. It is n't transferred by On-Off,but voltage.when we use tri-state alarm, we should contact one 2.2resistance between alarm signal line and public point.**Drawing as follows： 2.2K connect（a） is middle potential，belonging no alarm function；2.2K connect（b） is high potential，belonging alarm situation；2.2K connect（c） is low potential，belonging alarm situation.**



FIG（a）



FIG（b）



FIG（c）

Attention：1、Dome Structure System Connection Sketch Map，refer to P7 (2ch alarm output sketch map and 4ch alarm input connection sketch map)

■ Alarm1 act ：

■ Alarm1 out1：

■ Alarm1 out2：

☞ Operating Method As Follows:

1、Call preset 95 or 64 to enter into the main menu.

2、Move cursor to choose 【**Alarm1 act**】in the 【**Alram**】.**Press**【OPEN】key (open the iris order) for confirmation, enter into "Alarm1 act"，

3、Use P/T up-down order to change alarm act function.
The following functions can be set while alarming.
【Nothing】: Default situation, without any actions；
【Preset1-8】: Preset1-8；
【Pattern 1-3】: Pattern1－3；
【P scan 1-3】: Patrol scan1－3；
【F scan】: Frame scan
【A scan】: Auto scan
【Home】: Home place

4、Press【OPEN】key (Open the iris order), save "Alarm1 act setting " and exit; Press【CLOSE】key (Close the iris order), lose "Alarm1 act setting " and exit

5、Move cursor to choose 【**Alarm1 out1**】in 【**Alram**】.**Press**【OPEN】key (open the iris order) for confirmation, enter into "Alarm1 out1 setting".

6、Use P/T up-down order to choose the situation of "Alarm1 out1". If it is "On", stands for 1ch alarming, there will be "Alarm out" existing; if it is "Off", there will be no "Alarm out" existing.

7、Press【OPEN】key (open the iris order), save the"Alarm 1 out1 setting" and exit; Press【CLOSE】key (close the iris order), lose the"Alarm 1 out1 setting" and exit;

8、【**Alarm1 out2**】**Setting:**All its functionand setting methods are the same as 【**Alarm1 out1**】; So you can set its function according to step5-7

❖ Instruction：When "**Alarm out 1" and** "**Alarm out 2"** are **"On",** both of these two functions execute syncrhronically.

Alarm Function Setting

→**Alarm1 act**	Nothing
Alarm1 out 1	Off
Alarm1 out 2	Off
Alarm2 act	Nothing
Alarm2 out 1	Off
Alarm2 out 2	Off
Alarm3 act	Nothing
Alarm3 out 1	Off
Alarm3 out 2	Off
Alarm4 act	Nothing
Alarm4 out 1	Off
Alarm4 out 2	Off

Alarm1act function Setting

* Alarm1 act	Nothing
Alarm1 out 1	Off
Alarm1 out 2	Off
Alarm2 act	Nothing
Alarm2 out 1	Off
Alarm2 out 2	Off
Alarm3 act	Nothing
Alarm3 out 1	Off
Alarm3 out 2	Off
Alarm4 act	Nothing
Alarm4 out 1	Off
Alarm4 out 2	Off

alarm output port setting

Alarm1 act	Noth
*Alarm1 out 1	Off
*Alarm1 out 2	Off
Alarm2 act	Nothing
Alarm2 out 1	Off
Alarm2 out 2	Off
Alarm3 act	Nothing
Alarm3 out 1	Off
Alarm3 out 2	Off
Alarm4 act	Nothing
Alarm4 out 1	Off
Alarm4 out 2	Off

E Self act Function Setting:

☞ Operating Method As Follows:

1、Call preset 95 or 64 to enter into the main menu

2、Move cursor to choose【**Self act**】, Press【OPEN】key (open the iris order) for confirmation，enter into "Self act setting item"，

The following items can be selected:

【Nothing】: Default situation, without any action;

【Pattern 1-3】: Pattern Routes1－3;

【P scan 1-3】: Patrol scan1－3;

【F scan】: Frame scan

【A scan】: Auto scan

【Home】: Home place

Attention: All the settings must be set and saved, or no response will be given.

3、Press【OPEN】key (open the iris order),save the "Self act setting "and exit; Press【CLOSE】key (Close the iris order)，lose the "Self act setting "and exit.

Main Menu

Camera ▽
Pan ▽
Info ▽
Alarm ▽
→**Self act** Nothing
Lerisure Time 005
Address 001
System reset

Self-act Setting

Camera ▷
Pan ▷
Info ▷
Alarm ▷
* Self act **Nothing**
Lerisure Time 005
Address 001
System reset

F Leisure Time Setting:

☞ Operating Method As Follows:

1、Call preset 95 or 64 to enter into the main menu

2、Move cursor to choose【**Leisure Time**】, press【OPEN】key (open the iris order) for confirmation，enter into "Leisure Time Setting Items"，

3、Use P/T up-down order to change "Leisure Time" ，(3－240s available)

4、Press【OPEN】key (open the iris order),save the "Leisure Time Setting " and exit; Press【CLOSE】key(Close the iris order)，lose the "Leisure Time Setting" and exit.

Main Menu

Camera ▷
Pan ▷
Info ▷
Alarm ▷
Self act Nothing
→**Lerisure Time** 005
Address 001
System reset

Leisure T Setting

Camera ▷
Pan ▷
Info ▷
Alarm ▷
Self act Nothing
* Lerisure Time **005**
Address 001
System reset

G Address Setting:

☞ Operating Method As Follows

1、Call preset 95 or 64 to enter into the main menu

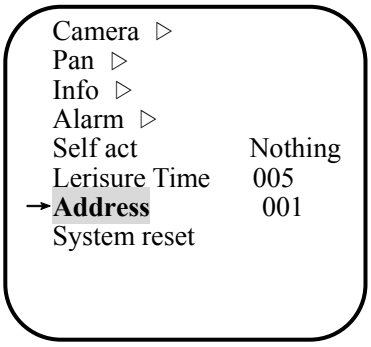
2、Move cursor to choose【**Address**】, Press【OPEN】key (open the iris order) for confirmation, The words "**Please input attest**" (input the correct testing serial number), as well as a line of dome's current testing serial number(such as " A0719001 ") will display on the left-downward of the screen

3、Move the blank symbol "？" right and left, use P/T up-down order to input the dome's current testing serial number (" A0719001 **A0719001** ") back and forth according to the current serial number.

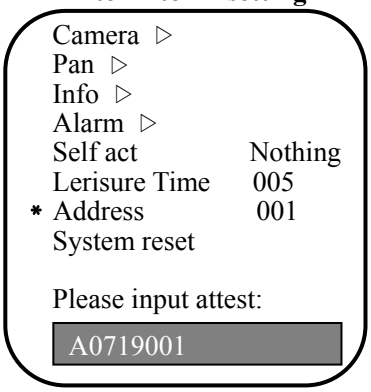
4、After checking it, press【OPEN】key (open the iris order), you can edit the ID address if the system testing is correct. Use P/T up-down order to change dome's current ID address(001-255 available)

5、Press【OPEN】key (open the iris order) for confirmation, save the "ID Add Setting" and exit; Press【CLOSE】key (close the iris order) for confirmation, lose the "ID Add Setting" and exit

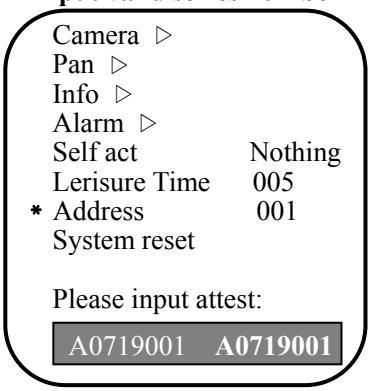
Main Menu



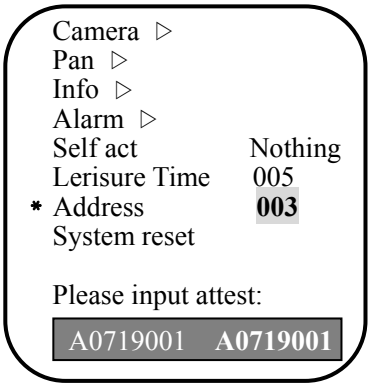
Enter into ID setting



Input valid series number



Edit ID Address



H System Reset Setting:

☞Operating Method As Follows:

1、Call preset 95 or 64 to enter into the main menu

2、Move cursor to choose【**System reset**】,**press**【OPEN】key (open the iris order) for confirmation, The words "**Please input attest**" (input the 6 passwords correctly), as well as 6 passwords input area(" ? ") will display on the left-downwards of the screen

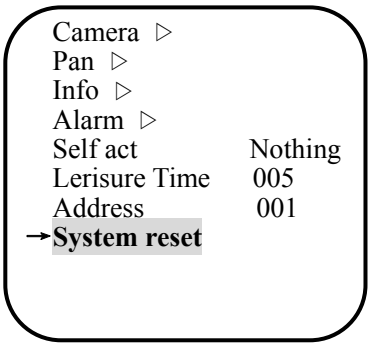
3、Move the blank symbol "？" right and left, use P/T up-down order to input the dome's 6 passwords, that is " 888888 "

4、Press【OPEN】key (open the iris order)for confirmation,the dome will carry out "System Reset"; press【CLOSE】key (close the iris order) or input the wrong number，can not reach"System Reset"

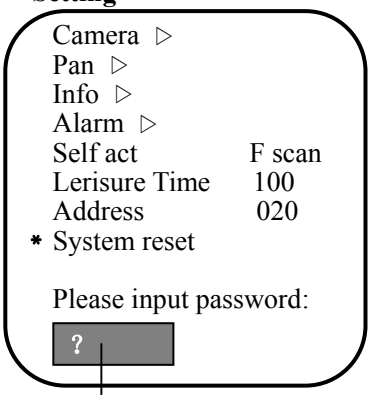
Attention：**a、"System Reset " password is 888888**

b、After carrying out this function, all the function settings the users fixed will be returned to the "Default Situation", so be cautious to use it!

Main Menu

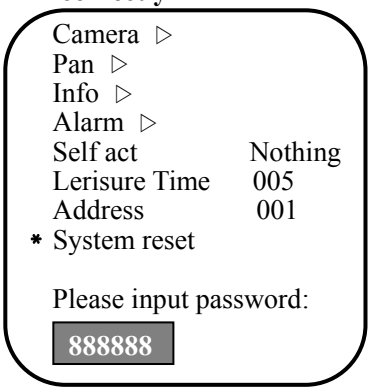


Enter into System Reset Setting



Inputting area

input 6 passwords correctly



Appendix

☙ Appendix Ⅰ： Lightning-proof、with surge-protector

This series products adopt electricity-generating tube through air and TVS board lighting-proof technology to avoid damage to the equipment caused by various pluse signal, such as thunder or surge under the 1500W. Meanwhile, be sure to make it safe and take effective measures when you install it ourside the house according to the practical situatio.

There must be at least 50m between singal transforming line and high-voltage equipments or high-voltage cables:

- Outside routing should be under the eave spout.
- Sealling steel pipe-burying(routing) is essential to the spacious area. One side of the steel pipe should be connected to the land. And impracticable routing method is forbidden.
- You have to take some meatures in the area of strong lightning or high-voltage area (such as transformer substation with high-voltage), such as install large power consumption lightning-proof equipments as well as lightning rod
- Outside installation and lightning-proof / grouding design of the circuit must be compatible with the lightning-proof requirement of the building. Moreover , it has to comply with the national standardization and field requirements;
- The system should be equipotential earthing.The grounding equipment must be content with the double requirements of the electric safty and anti-disturbance, and can't be connected with the earthing line (zero voltage) disorderly. The resistance should be less than 4Ω and the conducting wire's section area less than25 ㎜² while connecting the groud separately

☙ Appendix Ⅱ： Clearance of Transparent Housing

To ensure clear image,down-cover should be cleared regularly.

To avoid connecting it by your hand directly,you have to hold the external-loop of the down-cover steadily while cleaning. The acid sweaty-trace of your hands may corrode the surface of the down-cover and if it is damaged by the hard things which will cause unclear picture, influence the picture quality.

Be sure to clean the surface by soft cloth or other substitutes

- The medium-sized detergent is essential when it is dirty seriously and any clearance products of high-level can be available!

☙ Appendix Ⅲ：RS485 bus common sense

1、 RS485 bus basic features

According to RS485 industry standard, it belongs to special impedance 120Ω semiduplex communication bus, the max load capacity is 32 effective loads（contain master equipments and slave equipments）

2、 RS485 bus transmission distance

When we use 0.56mm(24AWG)twisted-pair as communication cables,according to the different Baud Rate，the max transmission distance's theoretical value as follows：

Baud Rate	Max Distance
2400BPS	1800m
4800BPS	1200m
9600BPS	800m

If the communication cable is quite thin, or it is used in the area of strong electromagnetism disturbance, or too many equipments are connected to the RS485,then the max transmission distance will be shortened; Otherwise, it will be lengthened

3、Connecting pattern and terminal resistance

3-1 RS485industry standard requires that various equipments should be complied with chrysanthemum-style connecting methods and both ends have to own 120Ωterminal resistance （As FIG 57） or for a simple one as FIG 58，but distance of"D"segment shouldn't exceed 7meter.

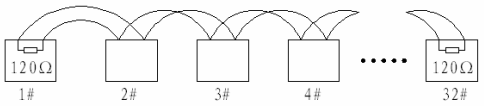


FIG 57

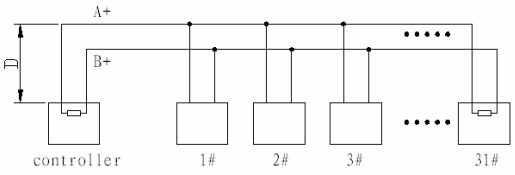


FIG 58

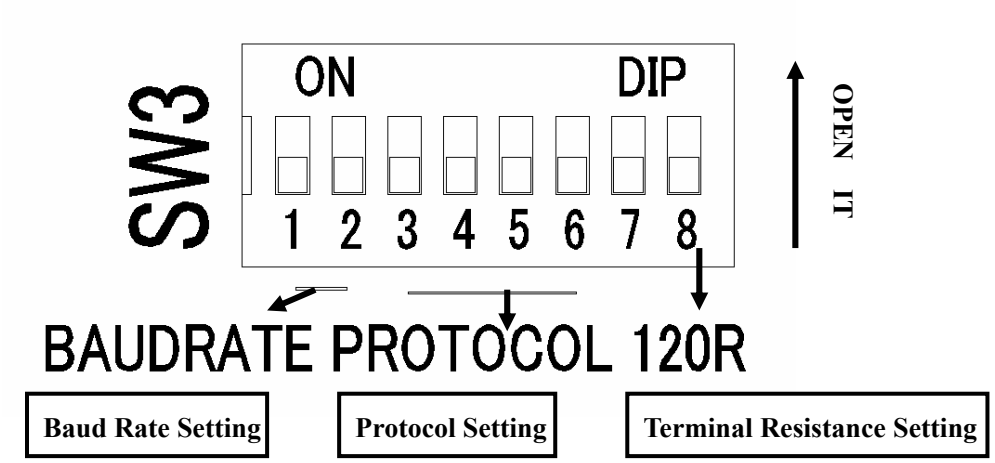
- Controlling Equipments：refer to matrix, keyboardand etc.
- 1#-32#：stand for dome structure

3-2 Equipment terminal resistance120Ω connecting methods as shown on FIG59：

Equipments'terminal resistance on the alarming communication board has been existed: The eighth one of SW3 on the alarming communication board is set to be "ON"by the connecting method. (refer to appendix ⅣSW3 DIP Switch Setting)。

☙ Appendix Ⅳ：SW3 DIP Switch

As Follows：



Baud Rate Setting			Protocol Setting						
Baud Rate	SW3-1	SW3-2	Control Protocol	SW3-3	SW3-4	SW3-5	SW3-6	SW3-7	SW3-8
2400bps	OFF	OFF	save	OFF	OFF	OFF	OFF	Switch on “ Tri-alarm ”	120Ω terminal Resistance Setting
4800bps	OFF	ON	save	OFF	OFF	OFF	OFF		
9600bps	ON	OFF	save	OFF	OFF	OFF	OFF		
19200bps	ON	ON	save	OFF	OFF	OFF	OFF		

Attention： **The dome can support these two protocols currently: PELCO-D/P，and PELCO-D/P can be compatibla without through DIP Switch Setting.**

SW3-7：“ON”，stands for switching on “Tri-alarm”

“OFF”，stands for switching off “Tri-alarm”

SW3-8：“ON”，stands for putting through terminal resistance 120Ω

“OFF”，stands for disconnecting terminal resistance 120Ω

☙ Appendix Ⅴ： Specification

Electric Parameter	
Power Source（Voltage Input）	DC15V
Power consumpation	36VA Standard
Setup：	
Protocol	Pelco-P/D auto recognization
Baud Rate	2400bps/4800bps/9600bps/19200bps selectable
ID Address	1－255（Soft ID Address）
Decoder	Built-in
Horizontal Rotation	360° continuous rotation
Pan Controlling Speed	0.1°－280°/sec，max speed adjustable
Vertical Rotation	0-90° rotation，can reach180° auto flip
Tilt Controlling Speed	0.1°－280°/sec，max speed adjustable
Operating Temperature：	
Operating temperature	outdoor：-40° C ~60° C indoor：0° C ~ 50° C
Environment Humidity	0-95％ without water-condensing
Safeguard Degree	IP66、whether-proof housing、lighting-proof，with surge
Camera Parameter	
Camera matching	Self-reacting camera of Sony/Hitachi/LG/CNB
CCD	1/4”
Scanning Method	2:1 interlace scan
Effective Pexils	752(H)x582(v)
Horizontal Resolution	≥480line
Illumination	Color 0.7LUX，B/W 0.01LUX
Video Output	1.0V±0.2Vp-p
S/N	≥50dB
Signal Format	PAL/NTSC
Sync System	Inner sync
Iris	Auto Iris
Focus	Auto Focus, manual control
Optical Zoom	X16， X18，X22，X23，X26，X27 selectable
Digital Zoom	X8 ，X10，X12
Gain Control	auto，manual priority
Shutter Speed	auto，manual 1/1-1/3500 selectable
Privacy Zone	6 privacy zones at most
Slow Shutter	On/Off，switch on / off Slow Shutter
Structure	
Outside Housing	Aluminium
Chip	Aluminium and PC plastic
Transparent Cover	Polypropylene Transparent Cover（without aperture loss）
Installing Methods	Built-in Style，Indoor/outdoor pendent

☙ Appendix Ⅵ： Basic Function Operation

Operation	Methods
（Pan and Tilt）	Move the joystick back and forth, up and down
（Scan） （Stop Scan） (Frame Scan) (Auto Scan)	All the effective order can stop scan Call preset 98（98+PRESET） Call preset 99（99+PRESET）
(Preset)	1．When setting preset，press preset No.+“PRESET” key（It’s about 3 econds until editing menu appears on the screen.） 2．When calling preset, press preset No.+“PRESET” key. 3．Keyboard setting and PTZ preset setting may vary from manufacturer tomanufacturer, Concerning the specific details, please refer to present cotroller’s operating instruction. Regarding other function settings of preset, please refer to preset speed setting and additional remarks of functions from P67-68
Special orders of presets:	Call preset No.33（33+PRESET）——carry out 180deg auto flip Call preset No.34（34+PRESET）——execute P/T zero recovery function horizontally Call preset No.64（64+PRESET）——enter into main menu Call preset No.95（95+PRESET）——enter into main menu and stop PATTERN recoding Call preset No.96（96+PRESET）——pattern1 Call preset No.97（97+PRESET）——preset1 scan Call preset No.98（98+PRESET）——frame scan Call preset No.99（99+PRESET）——auto scan
(Pattern)	1．When setting pattern, press pattern No.+“PATTERN”key （It is about 3 seconds until “PROGRAMMING PATTERN”appears on the screen），then set the patrol route, press “ACK” for confirmation. 2．When calling pattern, press pattern No. +“PATTERN” key 3．Through “Pan→Pattern” item, set and call pattern scan 4. Keyboard setting and PTZ preset calling methods may vary from manufacturer to manufacturer, Concerning the specific details, please refer to present cotroller’s operating instruction.
（ZOOM WIDE）	Press “ZOOM WIDE” or turn joystick anticlockwise
（ZOOM TELE） Attn：Turning 3D joystick clockwise or anticlockwise is equal to “【ZOOM TELE】” and “【ZOOM WIDE】” in function.	Control zoom according to the following steps: 1．Press “ZOOM TELE” key or turn joystick clockwise to the pictures you need. 2．Turn on the button or joystick 1、To achieve successive digital zoom, press the button or turn the joystick directly to the picture you need or reach digital zoom range
（Auto Iris）	Auto or manual，iris can adjust itself to the best brightness
（Auto focus）	Auto or manual, focus speed adjustable 0-7 grade
（Privacy Zone）	The users can cover the privacy zones by this item, and it can support multi privacy zones. (The area can be set freely) And the privacy zone can be moved along with Dome structure. Concerning the operation details, please refer to P28-29 or P46-48.
（Alarm）	It support 4ch alarm input, 2ch alarm output, each alarm–connecting situation and alarm output terminal can be programmed on the menu. Regarding the specific details, please refer to P72-73

☙ Appendix Ⅶ： After-Sales Service Promise

Dear Users：

Thank you for your confidence to our company brand. To make you feel more efficient, convenient and comfortable to our products, our company makes the following servicing promises:

一、Qaulity Warranty

The products are complied with the requirements of purchase-sale contract completely. It is manufactured in accordance with the latest standard. And we have a stringrnt testing for the products before leaving the factory.。

二、After-Sales Service During The Warranty Period

The manufacturer should be in charge of maintenance according to its regulation if it belongs to designing problem; Two-year guarantee, the first year-carry out in accordance with regulation; The second year-free of charge. You can rest assured sbout our products' quality: to solve the regular problem within 24hrs; middle problems within 48hrs; serious problems within 72hrs.

三、After-Sales Service After Warranty Period

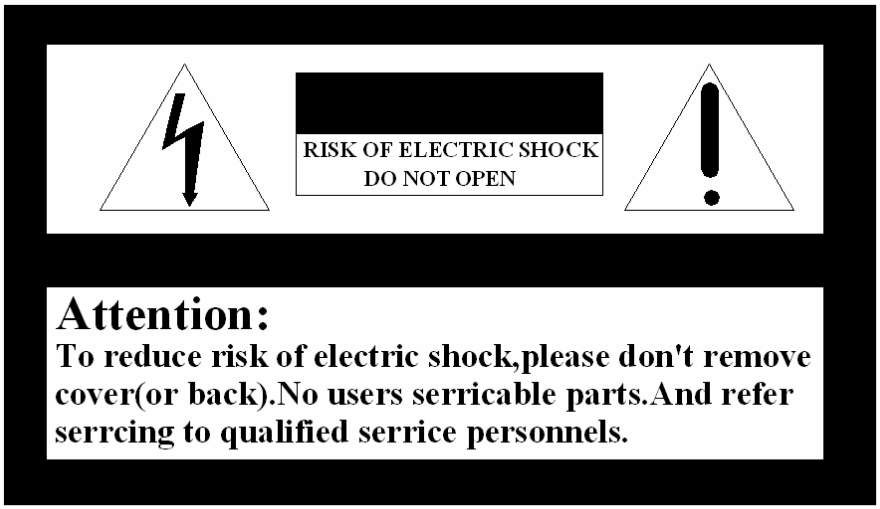
With the sufficient stock of accessories, we are responsible for maintenance to make our clients use it again in short time during the whole applying period after two-year guarantee. The guarantee period of accessories is ranging from 3 months to 10 months and our clients will be given due attention with their demand(having the priority)

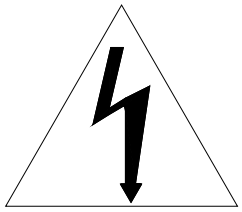
Integrated Intelligent PTZ Dome

S Series

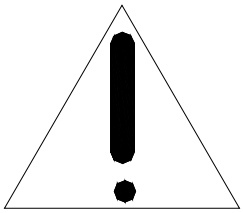
Operation Manual （English）

Please read this manual before you install or operate it and keep it for future use.


RISK OF ELECTRIC SHOCK
DO NOT OPEN
Attention:
To reduce risk of electric shock,please don't remove cover(or back).No users serricable parts.And refer serrcing to qualified serrice personnels.



This symbol is intended to alert the user to the presence of un-insulated “dangerous voltage” within the products’ enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons



This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance

The factory sequencing No. of the products is marked on the cover and back, please fill the sequencing No. in the following blank area and keep it safe for the future check.

Model：_____

Sequencing No.：_____

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